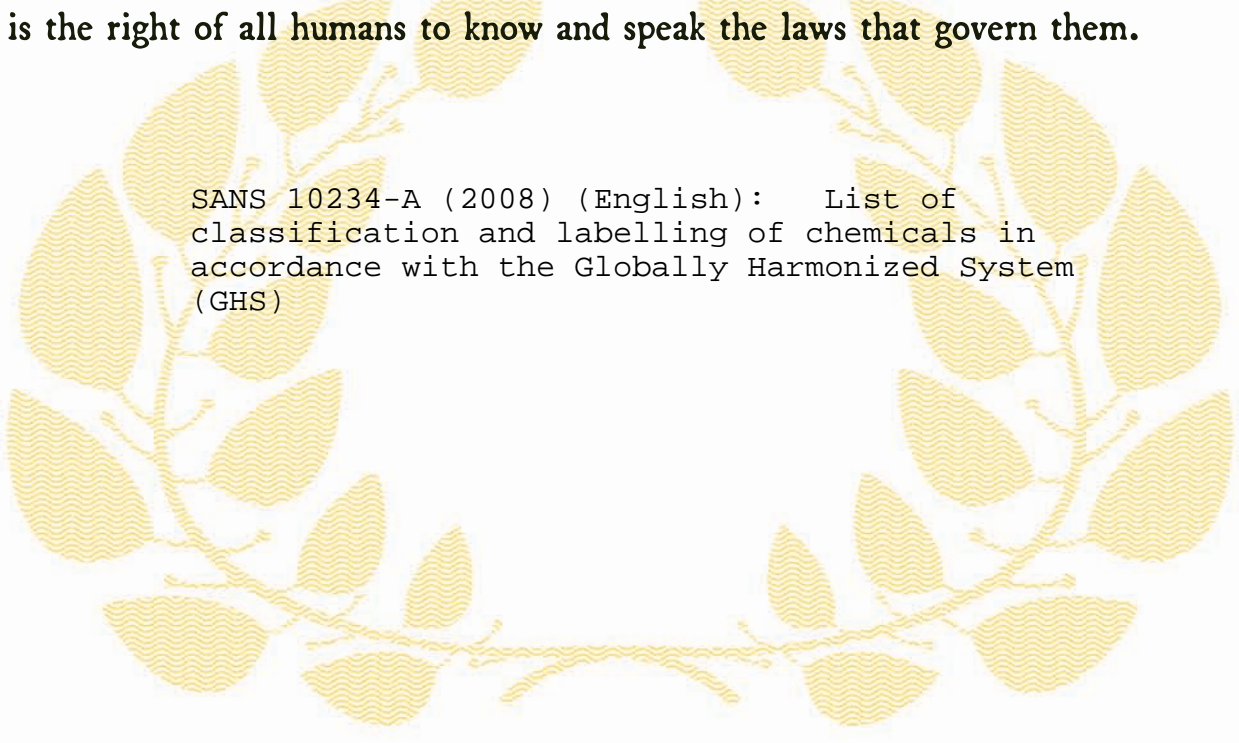




# *Republic of South Africa*

## EDICT OF GOVERNMENT

In order to promote public education and public safety, equal justice for all, a better informed citizenry, the rule of law, world trade and world peace, this legal document is hereby made available on a noncommercial basis, as it is the right of all humans to know and speak the laws that govern them.



SANS 10234-A (2008) (English): List of  
classification and labelling of chemicals in  
accordance with the Globally Harmonized System  
(GHS)



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# SUPPLEMENT TO SANS 10234

Edition 1

## SOUTH AFRICAN NATIONAL STANDARD

### List of classification and labelling of chemicals in accordance with the Globally Harmonized System (GHS)

**WARNING — Can only be used  
in conjunction with **SANS 10234****

## SUPPLEMENT TO SANS 10234:2008

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### Table of changes

Change No.	Date	Scope

### Foreword

This South African standard was approved by National Committee SABS SC 1060B, *National committee for dangerous goods standards – Classification and information*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This document was published in December 2008.

Annex A forms an integral part of this document. Annex B is for information only.

### Introduction

The use of chemicals to enhance and improve life is a widespread practice worldwide. Given the reality of the extensive global trade in chemicals, it was recognized that lists of chemicals classified in accordance with the globally harmonized system would assist manufacturers and suppliers of chemicals to correctly label containers intended for use at the workplace or in the home.

Practical considerations prohibit the listing of all chemicals by name in this document. It is therefore imperative that the document be used in conjunction with [SANS 10234](#) for the classification of chemicals not listed.

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## SUPPLEMENT TO SANS 10234:2008

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# List of classification and labelling of chemicals in accordance with the Globally Harmonized System (GHS)

## 1 Scope

This document is based on the harmonized criteria of SANS 10234 for the classification of hazardous substances, including waste, for their safe transport, use at the workplace or in the home according to their health, environmental and physical hazards, for example, acute toxicity and flammability. It gives, in tabular form, the GHS classification and label elements of the most commonly used chemicals.

The classification and labelling of pharmaceuticals (including stock remedies), food additives, cosmetics, and pesticide residues in food are not covered by this document in terms of labelling at the point of intentional intake. However, they are covered where workers might be exposed to them and in transport if the potential exposure warrants.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies. Information on currently valid national and international standards can be obtained from the SABS Standards Division.

[SANS 10228:2006, \*The identification and classification of dangerous goods for transport.\*](#)

[SANS 10234:2007, \*Globally Harmonized System of classification and labelling of chemicals \(GHS\).\*](#)

## 3 Methodology of re-classification from existing systems

### 3.1 GHS re-classification from existing systems

**3.1.1** Substances classified in accordance with existing systems need not be retested but can be re-classified in accordance with the criteria given in SANS 10234 on strength of available information. When new information becomes available, a chemical shall be re-classified taking the new information into account.

**3.1.2** For the purposes of SANS 10234, the following categories shall not be used for classification:

a) flammable liquids – category 4; and

b) toxic substances – category 5.

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### **3.2 Classification for transport**

For transport purposes, substances shall be classified in accordance with SANS 10228.

## **4 Hazard communication elements**

### **4.1 Signal words**

The signal words “Danger” or “Warning”, as applicable, are given on a label to indicate the level of severity of a hazard and alert the user of the chemical of a potential hazard. Annex A gives the signal words that have been assigned to each of the entries.

### **4.2 Hazard statements**

#### **4.2.1 General**

**4.2.1.1** A hazard statement is assigned to a hazard class and category (see SANS 10234) that describes the nature of the hazard(s) of a chemical, including, where appropriate, the degree of hazard.

**4.2.1.2** The hazard statement codes indicated against an entry in annex A shall only be used for reference purposes and shall neither form part of the hazard statement text that appears on a GHS label, nor replace it.

**4.2.1.3** The hazard statements on a label shall be worded in accordance with 4.2.3. The hazard statement relevant for each specific classification covered by the entry in annex A shall be used on the label.

#### **4.2.2 Codification of hazard statements**

**4.2.2.1** Hazard statements are assigned a unique alphanumeric code that consists of one letter and three numbers, as follows:

a) the letter “H” for “hazard statement”;

b) a number designating the type of hazard to which the hazard statement is assigned:

- 1) “2” for physical hazards,
- 2) “3” for health hazards,
- 3) “4” for environmental hazards; and

c) two numbers corresponding to the sequential numbering hazards arising from the intrinsic properties of the substance or mixture, for example code numbers 200 to 210 for explosivity and code numbers 220 to 230 for flammability.

**4.2.2.2** The codes are listed, in numerical order, in 4.2.3. The text in regular font is the text that shall appear on the label. The text in italics and enclosed within brackets provides extra information that could be specified. In such cases, the manufacturer or supplier can choose, or the competent authority can prescribe the information.



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### **4.2.3 Hazard statement codes**

#### **4.2.3.1 Physical hazard statements**

<b>H200</b>	Unstable explosive
<b>H201</b>	Explosive; mass explosion hazard
<b>H202</b>	Explosive; severe projection hazard
<b>H203</b>	Explosive; fire blast or projection hazard
<b>H204</b>	Fire or projection hazard
<b>H205</b>	May explode in fire
<b>H220</b>	Extremely flammable gas
<b>H221</b>	Flammable gas
<b>H222</b>	Extremely flammable aerosol
<b>H223</b>	Flammable aerosol
<b>H224</b>	Extremely flammable liquid and vapour
<b>H225</b>	Highly flammable liquid and vapour
<b>H226</b>	Flammable liquid and vapour
<b>H227</b>	Combustible liquid
<b>H228</b>	Flammable solid
<b>H240</b>	Heating may cause an explosion
<b>H241</b>	Heating may cause a fire or explosion
<b>H242</b>	Heating may cause a fire
<b>H250</b>	Catches fire spontaneously if exposed to air
<b>H251</b>	Self-heating; may catch fire
<b>H252</b>	Self-heating in large quantities; may catch fire
<b>H260</b>	In contact with water releases flammable gases that may ignite spontaneously
<b>H261</b>	In contact with water releases flammable gas
<b>H270</b>	May cause or intensify fire; oxidizer
<b>H271</b>	May cause fire or explosion; strong oxidizer
<b>H272</b>	May intensify fire; oxidizer
<b>H280</b>	Contains gas under pressure; may explode if heated
<b>H281</b>	Contains refrigerated gas; may cause cryogenic burns or injury
<b>H290</b>	May be corrosive to metals

#### **4.2.3.2 Health hazard statements**

<b>H300</b>	Fatal if swallowed
<b>H301</b>	Toxic if swallowed
<b>H302</b>	Harmful if swallowed
<b>H303</b>	May be harmful if swallowed
<b>H304</b>	May be fatal if swallowed and enters airways
<b>H305</b>	May be harmful if swallowed and enters airways
<b>H310</b>	Fatal in contact with skin
<b>H311</b>	Toxic in contact with skin
<b>H312</b>	Harmful in contact with skin
<b>H313</b>	May be harmful in contact with skin
<b>H314</b>	Causes severe skin burns and eye damage
<b>H315</b>	Causes skin irritation

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<b>H316</b>	Causes mild skin irritation
<b>H317</b>	May cause an allergic skin reaction
<b>H318</b>	Causes serious eye damage
<b>H319</b>	Causes serious eye irritation
<b>H320</b>	Causes eye irritation
<b>H330</b>	Fatal if inhaled
<b>H331</b>	Toxic if inhaled
<b>H332</b>	Harmful if inhaled
<b>H333</b>	May be harmful if inhaled
<b>H334</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled
<b>H335</b>	May cause respiratory irritation
<b>H336</b>	May cause drowsiness or dizziness
<b>H340</b>	May cause genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)
<b>H341</b>	Suspected of causing genetic defects ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )
<b>H350</b>	May cause cancer ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )
<b>H351</b>	Suspected of causing cancer ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )
<b>H360</b>	May damage fertility or the unborn child ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )
<b>H361</b>	Suspected of damaging fertility or the unborn child ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )
<b>H362</b>	May cause harm to breast-fed children
<b>H370</b>	Causes damage to organs ( <i>or state all organs affected, if known</i> ) ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )
<b>H371</b>	May cause damage to organs ( <i>or state all organs affected, if known</i> ) ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )
<b>H372</b>	Causes damage to organs ( <i>or state all organs affected, if known</i> ) ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )
<b>H373</b>	May cause damage to organs ( <i>or state all organs affected, if known</i> ) through prolonged or repeated exposure ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )

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### 4.2.3.3 Environmental hazard statements

<b>H401</b>	Very toxic to aquatic life
<b>H402</b>	Toxic to aquatic life
<b>H403</b>	Harmful to aquatic life
<b>H410</b>	Very toxic to aquatic life with long lasting effects
<b>H411</b>	Toxic to aquatic life with long lasting effects
<b>H412</b>	Harmful to aquatic life with long lasting effects
<b>H413</b>	May cause long lasting harmful effects to aquatic life

## 4.3 Precautionary statements

### 4.3.1 General

**4.3.1.1** Classification of a chemical is the starting point for the assignment of precautionary statements. The precautionary label information, specific safety guidelines and the information in a safety data sheet, all form part of the labelling requirements and occupational health and safety procedures that need to be taken into account before a substance is used.

**4.3.1.2** General precautionary measures shall be adopted for all substances and mixtures that are classified as hazardous to human health or the environment. To this end, the needs of, and the information sources available to the general public, the commercial user and the industrial worker shall be taken into account.

**4.3.1.3** In order to correctly implement precautionary measures concerning prevention, response, storage and disposal, it is necessary to have information on the composition of the products at hand available, so that the information shown on the container, label and safety data sheet can be taken into account when asking for further specialist advice.

**4.3.1.4** In the majority of cases, the recommended precautionary statements are independent, for example, the statements for flammable hazards do not modify the statements related to health hazards. Therefore, chemicals that are classified for both hazard classes shall bear precautionary statements for both.

**4.3.1.5** Precautionary statements are assigned to the hazard categories defined in SANS 10234. The precautions are divided into five types (see 4.3.5).

**4.3.1.6** The precautionary statements shall only be used for reference purposes and shall neither form part of the precautionary statement text that appears on the GHS label, or replace it.

**4.3.1.7** The precautionary statements on a label shall be worded in accordance with 4.3.6.

**4.3.1.8** Where a substance or mixture is supplied to the general public, a precautionary statement addressing the disposal of the substance or mixture and the disposal of the packaging shall appear on the label. However, a precautionary statement addressing disposal is not required where it is clear that the disposal of the substance or mixture, or the disposal of the packaging does not present a hazard to human health or the environment.

**4.3.1.9** Preferably, not more than six precautionary statements should appear on a label, unless necessary to reflect the nature of the severity of the hazards (see also 4.3.5).

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### 4.3.2 Precautionary pictograms

To protect people with different reading abilities, precautionary pictograms could be depicted on the label in addition to the precautionary statements (see SANS 10234).

NOTE The pictograms given in SANS 10234 do not cover all precautionary aspects to be addressed.

### 4.3.3 Codification of precautionary statements

**4.3.3.1** Precautionary statements are assigned a unique alphanumeric code that consists of one letter and three numbers as follows:

a) the letter "P" for "precautionary statement";

b) a number designating the type of precaution to be taken:

- |    |     |   |
|----|-----|---|
| 1) | "1" | for general precautions,  |
| 2) | "2" | for the prevention of a hazardous situation,  |
| 3) | "3" | for the response in case of accidental spillage or exposure,<br>emergency response and first aid, |
| 4) | "4" | for storage,  |
| 5) | "5" | for disposal; and   |

c) two numbers corresponding to the sequential numbering of the precautionary statements.

**4.3.3.2** The codes are listed, in numerical order, in 4.3.5. The text in regular font is the text that shall appear on the label. The text in italics indicates specific conditions that apply to the use or allocation of the precautionary statement. For example, "Specific treatment is urgent *if immediate administration of antidote is required*" is applicable to inhalation toxicity of category 1 and category 2. Text in regular font and enclosed in brackets indicates additional information that is required or needs to be specified.

**4.3.3.3** A backslash (\) in the text of a precautionary statement indicates that a choice has to be made between the phrases it separates, for example "Wear protective gloves/protective clothing/eye protection/face shield". In such a case, the manufacturer or supplier should choose the most appropriate phrase(s).

**4.3.3.4** Three dots (...) in the text of a precautionary statement indicate that all applicable conditions are not listed. "Use explosion-proof electrical/ventilating/lighting/.../equipment" indicates that other equipment might need to be specified. In such a case, the manufacturer or supplier can choose the other conditions to be specified.

**4.3.3.5** A number of different precautionary statements can be combined by joining the codes with a plus sign (+). For example, "P305 + P351 + P338" indicates that the text on the label should read "IF IN THE EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing" (see also 4.3.4.3).

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### **4.3.4 Allocation of precautionary statements**

**4.3.4.1** For the allocation of precautionary statements, all the specific elements relating to the particular hazard classes shall be taken into account.

**4.3.4.2** Where a substance or a mixture is classified for a number of health hazards, the most stringent set of precautionary statements shall be selected. This applies mainly for preventative measures where rapid response is crucial. For example, if a substance is classified as carcinogenic and acutely toxic, the first-aid measures for acute toxicity take precedence over those for long-term effects. In addition, incidental exposure might result in delayed health effects, which might require medical attention.

**4.3.4.3** The combination of precautionary statements is encouraged to provide flexibility in the application of precautionary statements, save label space and improve readability. The combination of precautionary statements can also be useful for different types of hazards where the precautionary behaviour is similar, for example, "Keep away from heat, sparks and open flame and store in a well-ventilated place".

**4.3.4.4** Precautionary statements shall appear on the GHS labels along with the GHS hazard communication elements (pictograms, signal words and hazard statements). Additional supplemental information such as directions for use might also be provided at the discretion of the manufacturer, or supplier, or the competent authority as applicable. For some chemicals, first aid, treatment measures, specific antidotes and cleansing material could be required. In such cases, the advice of poison centres and medical practitioners should be sought and included on the label.

### **4.3.5 Precautionary statement codes**

#### **4.3.5.1 General**

<b>P101</b>	If medical advice is needed, have product container or label at hand
<b>P102</b>	Keep out of reach of children
<b>P103</b>	Read label before use

#### **4.3.5.2 Prevention precautionary statements**

<b>P201</b>	Obtain special instructions before use
<b>P202</b>	Do not handle until all safety precautions have been read and understood
<b>P210</b>	Keep away from heat/sparks/open flames/hot surfaces – No smoking (manufacturer/supplier or the competent authority to specify applicable ignition sources)
<b>P211</b>	Do not spray on an open flame or other ignition source
<b>P220</b>	Keep/Store away from clothing/.../combustible materials (manufacturer/supplier or the competent authority to specify other incompatible materials)
<b>P221</b>	Take any precaution to avoid mixing with combustibles/... (manufacturer/supplier or the competent authority to specify incompatible materials)
<b>P222</b>	Do not allow contact with air
<b>P223</b>	Keep away from any possible contact with water, because of violent reaction and possible flash fire

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<b>P230</b>	Keep wetted with ... (manufacturer/supplier or the competent authority to specify appropriate material) — <i>if drying out increases explosion hazard, except as needed for manufacturing or operating processes (for example nitrocellulose)</i>
<b>P231</b> <b>P232</b>	Handle under inert gas Protect from moisture
<b>P233</b>	Keep container tightly closed — <i>if product is volatile so as to generate hazardous atmosphere</i>
<b>P234</b> <b>P235</b>	Keep only in original container Keep cool
<b>P240</b>	Ground/bond container and receiving equipment — <i>if the explosive is electrostatically sensitive</i> — <i>if electrostatically sensitive material for reloading</i> — <i>if product is volatile so as to generate hazardous atmosphere</i>
<b>P241</b>	Use explosion-proof electrical/ventilating/.../equipment (manufacturer/supplier or the competent authority to specify other equipment)
<b>P242</b> <b>P243</b> <b>P244</b>	Use only non-sparking tools Take precautionary measures against static discharge Keep reduction valves free from grease and oil
<b>P250</b>	Do not subject to grinding/shock/.../friction (manufacturer/supplier or the competent authority to specify applicable rough handling)
<b>P251</b>	Pressurized container: Do not pierce or burn, even after use
<b>P260</b>	Do not breathe dust/fume/gas/mist/vapours/spray (manufacturer/supplier or the competent authority to specify applicable conditions)
<b>P261</b>	Avoid breathing dust/fume/gas/mist/vapours/spray (manufacturer/supplier or the competent authority to specify applicable conditions)
<b>P262</b> <b>P263</b>	Do not get in eyes, on skin, or on clothing Avoid contact during pregnancy/while nursing
<b>P264</b>	Wash ...thoroughly after handling (manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling)
<b>P270</b> <b>P271</b> <b>P272</b>	Do not eat, drink or smoke when using this product Use only outdoors or in well ventilated area Contaminated work clothing should not be allowed out of the workplace
<b>P273</b>	Avoid release to the environment — <i>if this is not the intended use</i>
<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection (manufacturer/supplier or the competent authority to specify the type of equipment)

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<b>P281</b>	Use personal protective equipment as required
<b>P282</b>	Wear cold insulating gloves/face shield/eye protection
<b>P283</b>	Wear fire/flame-resistant/retardant clothing
<b>P284</b>	Wear respiratory protection (manufacturer/supplier or the competent authority to specify equipment)
<b>P285</b>	In case of inadequate ventilation wear respiratory protection (manufacturer/supplier or the competent authority to specify equipment)
<b>P231+P232</b>	Handle under inert gas and protect from moisture
<b>P235+P410</b>	Keep cool and protect from sunlight

### 4.3.5.3 Response precautionary statements

#### 4.3.5.3.1 Single response precautionary statements

<b>P301</b>	IF SWALLOWED:
<b>P302</b>	IF ON SKIN:
<b>P303</b>	IF ON SKIN (or hair):
<b>P304</b>	IF INHALED:
<b>P305</b>	IF IN EYES:
<b>P306</b>	IF ON CLOTHING:
<b>P307</b>	IF EXPOSED:
<b>P308</b>	IF EXPOSED OR CONCERNED:
<b>P309</b>	IF EXPOSED OR IF YOU FEEL UNWELL:
<b>P310</b>	Immediately call a POISON CENTRE or doctor/physician
<b>P311</b>	Call a POISON CENTRE or doctor/physician
<b>P312</b>	Call a POISON CENTRE or doctor/physician if you feel unwell
<b>P313</b>	Get medical advice/attention
<b>P314</b>	Get medical advice/attention if you feel unwell
<b>P315</b>	Immediately get medical advice/attention
<b>P320</b>	Specific treatment is urgent (see...on this label) (reference to supplemental first-aid instruction) — <i>if immediate administration of antidote is required</i>
<b>P321</b>	Specific treatment (see...on this label) (reference to supplemental first-aid instruction)
<b>P322</b>	Specific measures (see...on this label) (reference to supplemental first-aid instruction)
<b>P330</b>	Rinse mouth
<b>P331</b>	Do NOT induce vomiting
<b>P332</b>	If skin irritation occurs:
<b>P333</b>	If skin irritation or rash occurs:
<b>P334</b>	Immerse in cool water/wrap in wet bandages
<b>P335</b>	Brush off loose particles from skin
<b>P336</b>	Thaw frosted parts with lukewarm water. Do not rub affected area
<b>P337</b>	If eye irritation persists:
<b>P338</b>	Remove contact lenses, if present and easy to do. Continue rinsing
<b>P340</b>	Remove to fresh air and keep at rest in a position comfortable for breathing

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<b>P341</b>	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing
<b>P342</b>	If experiencing respiratory symptoms:
<b>P350</b>	Gently wash with plenty of soap and water
<b>P351</b>	Rinse cautiously with water for several minutes
<b>P352</b>	Wash with plenty of water
<b>P353</b>	Rinse skin with water/shower
<b>P360</b>	Rinse immediately contaminated clothing and skin with plenty of water before removing clothes
<b>P361</b>	Immediately remove/take off all contaminated clothing
<b>P362</b>	Take off contaminated clothing and wash before re-use
<b>P363</b>	Wash contaminated clothing before re-use
<b>P370</b>	In case of fire:
<b>P371</b>	In case of major fire and large quantities:
<b>P372</b>	Explosion risk in case of fire
<b>P373</b>	DO NOT fight fire when fire reaches explosives
<b>P374</b>	Fight fire with normal precautions from a reasonable distance
<b>P375</b>	Fight fire at a distance owing to the risk of explosion
<b>P376</b>	Stop leak if safe to do so
<b>P377</b>	Leaking gas fire: Do not extinguish, unless leak can be stopped safely
<b>P378</b>	Use...for extinction (manufacturer/supplier or the competent authority to specify appropriate media) — <i>if water increases risk</i>
<b>P380</b>	Evacuate area
<b>P381</b>	Eliminate all ignition sources if safe to do so
<b>P390</b>	Absorb spillage to prevent material damage
<b>P391</b>	Collect spillage

### 4.3.5.3.2 Combined response precautionary statements

<b>P301+P310</b>	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician
<b>P301+P312</b>	IF SWALLOWED: Call a POISON CENTRE or doctor /physician if you feel unwell
<b>P301+P330+P331</b>	IF SWALLOWED: Rinse mouth and do NOT induce vomiting
<b>P302+P334</b>	IF ON SKIN: Immerse in cool water/wrap in wet bandages
<b>P302+P350</b>	IF ON SKIN: Gently wash with plenty of soap and water
<b>P302+P352</b>	IF ON SKIN: Wash with plenty of soap and water



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<b>P303+P361+P353</b>	IF ON SKIN (or hair): Immediately remove/take off all contaminated clothing. Immediately rinse skin with water/shower
<b>P304+P312</b>	IF INHALED: Call a POISON CENTRE or doctor/physician if you feel unwell
<b>P304+P340</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
<b>P304+P341</b>	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
<b>P306+P360</b>	IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes
<b>P307+P311</b> <b>P308+P313</b>	IF EXPOSED: Call a POISON CENTRE or doctor/physician If exposed or concerned: Call a POISON CENTRE or doctor/physician
<b>P309+P311</b>	If exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician
<b>P332+P313</b> <b>P333+P313</b>	If skin irritation occurs: Get medical advice/attention If skin irritation or rash occurs: Get medical advice/attention
<b>P335+P334</b>	Brush off loose particles from skin and immerse in cool water/wrap in wet bandages
<b>P337+P313</b> <b>P342+P311</b>	If eye irritation persists: Get medical advice/attention If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician
<b>P370+P376</b> <b>P370+P378</b> <b>P370+P380</b>	In case of fire: Stop leak if safe to do so In case of fire: use ... for extinction In case of fire: Evacuate area
<b>P370+P380+P375</b>	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion
<b>P371+P380+P375</b>	In case of major fire or large quantities: Evacuate area. Fight fire at a distance owing to the risk of explosion

### 4.3.5.4 Storage precautionary statements

#### 4.3.5.4.1 Single storage precautionary statements

<b>P401</b>	Store in accordance with national legislation and provisions ( <i>to be specified</i> )
<b>P402</b>	Store in a dry place
<b>P403</b>	Store in a well ventilated place
<b>P404</b>	Store in a closed container
<b>P405</b>	Store locked up
<b>P406</b>	Store in corrosive resistant/.../container with a resistant inner liner
<b>P407</b>	Maintain air gap between stacks/pallets

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<b>P410</b>	Protect from sunlight
<b>P411</b>	Store at temperatures not exceeding ... °C
<b>P412</b>	Do not expose to temperatures exceeding 50 °C
<b>P413</b>	Store bulk masses greater than...kg at temperatures not exceeding ... °C
<b>P420</b>	Store away from other materials
<b>P422</b>	Store contents under ...

### **4.3.5.4.2 Combined storage precautionary statements**

<b>P402+P404</b>	Store in a dry place in a closed container
<b>P403+P233</b>	Store in a well-ventilated place and keep the container tightly closed
<b>P403+P235</b>	Store in a well-ventilated place and keep cool
<b>P410+P403</b>	Protect from sunlight and store in a well-ventilated place
<b>P410+P412</b>	Protect from sunlight and do not expose to temperatures exceeding 50 °C
<b>P411+P235</b>	Store at temperatures not exceeding ...°C. Keep cool

### **4.3.5.5 Disposal precautionary statements**

<b>P501</b>	Dispose of contents/container to ...
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## **4.4 Hazard pictograms**

The rules of precedence given in SANS 10234 shall be followed where the classification of a substance or a mixture results in more than one hazard pictogram on the label.

The hazard pictogram shall have a black symbol on a white background with a red frame sufficiently wide to be clearly visible (see also SANS 10234).

Each pictogram shall cover at least one fifteenth of the surface area of the GHS label but the minimum area shall not be less than 1 cm<sup>3</sup>.

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### Bibliography

#### Standards

SANS 10229-1, *Transport of dangerous goods – Packaging and large packaging for road and rail transport. Part 1: Packaging.*

SANS 10229-2, *Transport of dangerous goods – Packaging and large packaging for road and rail transport. Part 2: Large packaging.*

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Lewis Sr., Richard J. (2002) *Hawley's condensed dictionary*, 14<sup>th</sup> Edition. Printed by John Wiley and Sons Inc., New Jersey, USA. ISBN 0-471-38735-5.

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# ANNEX A

## ALPHABETICAL LIST OF CHEMICALS

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**Annex A**  
(normative)

**Table A – Alphabetical list of chemicals**

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
605-015-00-1	Acetal	105-57-7	1088	Flam liquid 2 Eye irritant 2A Skin irritant 2	Flame Exclamation mark	Warning	H225 H319 H315	P210; P233; P242; P243; P264; P280; P305+P351+P338; P337+P313; P303+P361+P353; P370+P378; P403+P235; P501	
605-003-00-6	Acetaldehyde	75-07-0	1089	Flam liquid 1 Carcinogen 2 Eye irritant 2A STOT single 3 (respiratory)	Flame Health haz	Danger	H224 H351 H319 H335	P201; P202; P210; P233; P240; P241; P242; P243; P280; P261; P271; P304+P340; P312; P305+P351+P338; P337+P313; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-002-00-6	Acetic acid, concentration > 10 % < 80 % acid, by mass	64-19-7	2790	Skin corr 1B	Corrosion	Danger	H314	P260; P262; P264; P280; P303+P361+P353; P301+P330+P331; P363; P304+P340; P305+P351+P338; P321; P405; P501	
607-002-00-6	Acetic acid, concentration ≤ 10 % acid, by mass	64-19-7	–	Skin irritant 2	Exclamation mark	Warning	H315	P264; P280; P302+P352; P321; P332+P313; P362	Not dangerous for transport.
607-002-00-6	Acetic acid, glacial, concentration > 80 % acid, by mass	64-19-7	2789	Flam liquid 3 Skin corr 1B	Flame Corrosion	Danger	H226 H314	P210; P233; P242; P243; P260; P262; P264; P280; P370+P378; P304+P340; P310; P321; P301+P330+P331; P312; P303+P361+P353; P363; P305+P351+P338; P403+P333; P403+P235; P405; P501	



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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-008-00-9	Acetic anhydride	108-24-7	1715	Flam liquid 3 Skin corr 1B	Flame Corrosion	Danger	H226 H314	P210; P233; P242; P243; P260; P262; P264; P280; P301+P330+P331; P304+P340; P310; P321; P303+P361+P353; P363; P370+P378; P305+P351+P338; P403+P510; P403+P235; P405; P501	
606-001-00-8	Acetone	67-64-1	1090	Flam liquid 2 Eye Irritant 2A STOT single 3 (narcotic)	Flame Health haz	Danger	H225 H319 H336	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P305+P351+P338; P337+P313; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	
608-001-00-3	Acetonitrile, conc $\geq 3\%$ < 20 %, by mass	75-05-8	—	Eye irritant 2B	None	Warning	H320	P264; P305+P351+P338; P337+P313	Not dangerous for transport.

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
608-001-00-3	Acetonitrile, concentration $\geq$ 20 %, by mass	75-05-8	1648	Flam liquid 2 Eye irritant 2A	Flame Exclamation mark	Danger	H225 H319	P210; P233; P240; P242; P243; P261; P264; P280; P304+P340; P312; P321; P305+P351+P338; P337+P313; P303+P361+P353; P363; P370+P378; P403+P233; P403+P235; P501	
607-011-00-5	Acetyl chloride	75-36-5	1717	Flam liquid 2 Skin corr 1B	Flame Corrosion	Danger	H225 H314	P210; P233; P240; P242; P243; P260; P262; P264; P280; P303+P361+P353; P363; P370+P378;; P301+P330; P331; P304+P340; P312; P321; P305+P351+P338; P304+P233; P403+P235; P405; P501	
606-007-00-0	2-Acetyl propane, see Isopropyl methyl ketone	563-80-4	2397						

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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
606-029-00-0	Acetylacetone	123-54-6	2310	Flam liquid 3	Flame	Danger	H226 H302	P210; P233; P240; P241; P242; P243; P264; P280;; P303+P361+P353; P370+P378; P403+P233; P403+P235; P501	
601-015-00-0	Acetylene (dissolved)	74-86-2	1001	Dissolved gas Flam gas 1	Gas cylinder Flame	Danger	H280 H220	P210; P377; P381; P410+P403	
601-015-00-0	Acetylene, solvent free	74-86-2	3374	Compressed gas Flam gas 1	Gas cylinder Flame	Danger	H280 H220	P210; P377; P381; P410+P403	
605-008-00-3	Acrolein (stabilized)	107-02-8	1092	Flam liquid 2 Skin corr 1B Acute aquatic 1	Flame Corrosion Environ haz	Danger	H225 H314 H400	P210; P233; P240; P241; P242; P243; P260; P262; P264; P270; P271; P280;; P301+P330+P310; P303+P361+P353; P363; P370+P378; P304+P340; P312; P321; P305+P351+P338; P403+P233; P403+P235; P405; P501	
605-008-00-3	Acrylaldehyde, see Acrolein (stabilized)	107-02-8	1092						

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-061-00-8	Acrylic acid	79-10-7	2218	Flam liquid 3 Skin corr 1A Acute aquatic 1	Flame Corrosion Environ haz	Danger	H226 H314 H400	P210; P233; P240; P241; P242; P243; P260; P262; P264; P273; P391; P280; P303+P361+P353; P363; P370+P378; P304+P340; P312; P321; P301+P330+P331; P305+P351+P338; P403+P233; P403+P235; P405; P501	
608-003-00-4	Acrylonitrile, conc $\geq 10\%$ < 20 %, by mass	107-13-1	—	Carcinogen 1B STOT Single 3 (respiratory) Eye irritant 2A Skin sens 1 Chron aquatic 3	Health haz Exclamation mark Environ haz	Danger	H350 H335 H319 H317 H412	P201; P202; P233; P261; P264; P271; P272; P280; P304+P340; P312; P321; P302+P352; P363; P333+P313; P305+P351+P338; P337+P313; P403+P233; P405; P501	

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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
608-003-00-4	Acrylonitrile, conc $\geq 5\%$ < 10 %, by mass	107-13-1	–	Carcinogen 2 Eye irritant 2B Skin sens 1 Chron aquatic 4	Health haz Exclamation mark	Danger	H351 H320 H317 H413	P201; P202; P261; P264; P272; P280; P273; P305+P351+P338; P337+P313; P302+P352; P321; P332+P313; P363; P405; P501	
608-003-00-4	Acrylonitrile, stabilized, concentration $\geq 20\%$	107-13-1	1093	Flam liquid 2 Carcinogen 1B Eye damage 1 Skin sens 1 Chron aquatic 2	Corrosion Flame Health haz Environ haz		H225 H350 H318 H317 H411	P201; P202; P210; P233; P240; P241; P242; P243; P261; P264; P271; P272; P273; P280; P305+P351+P338; P337+P313; P303+P361+P353; P333+P313; P362; P304+P340; P312; P321; P370+P378; P403+P233; P403+P235; P405; P501	
603-038-00-1	Allyl 2,3-epoxypropyl ether, see Allyl glycidyl ether	106-92-3	2219						

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-015-00-6	Allyl alcohol	107-18-6	1098	Flam liquid 2 Eye irritant 2A Skin irritant 2 STOT single 3 (respiratory) Acute aquatic 1	Toxic Flame Environ haz	Danger	H225 H319 H335 H315 H400	P210; P233; P240; P241; P242; P243; P261; P264; P271; P273; P391; P280; P304+P340; P312; P322; P303+P361+P353; P363; P332+P313; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P405; P501	Allyl alcohol has a closed-cup flashpoint of 21°C.
602-029-00-X	Allyl chloride	107-05-1	1100	Flam liquid 2 Carcinogen 2 Mutagen 2 Eye irritant 2A Skin irritant 2 Acute aquatic 1	Flame Health haz Environ haz	Danger	H225 H351 H341 H319 H317 H400	P201; P202; P210; P233; P240; P241; P242; P243; P260; P264; P270; P271; P273; P391; P281; P304+P340; P312; P321; P303+P361+P353; P312; P363; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P405; P501	

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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-038-00-1	Allyl glycidyl ether	106-92-3	2219	Flam liquid 3 Carcinogen 2 Reprod tox 2 Eye damage 1 Chron aquatic 3	Corrosion Flame Health haz	Danger	H226 H351 H361 H318 H412	P201; P202; P210; P233; P240; P241; P242; P243; P264; P270; P271; P273; P391; P281; P304+P340; P312; P321 P301+P330+P331; P303+P361+P353; P363; P333+P313; P370+P378; P403+P233; P403+P235; P405; P501	
602-054-00-6	Allyl iodide	556-56-9	1723	Flam liquid 2 Skin corr 1B	Flame Corrosion	Danger	H225 H314	P210; P233; P240; P241; P242; P243; P260; P262; P264; P280; P303+P361+P353; P363; P301+P330; P304+P340; P312; P321; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P405; P501	3-Iodpropene has a closed-cup flashpoint of 5°C.

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-246-00-3	Allyl methacrylate	96-05-9	1992	Flam liquid 3 Acute aquatic 1	Flame Environ haz	Danger	H226 H400	P210; P233; P240; P241; P242; P243; P273; P391; P280; P303+P361+P353; P363; P370+P378; P403+P235; P405; P501	
612-046-00-4	Allylamine	107-11-9	2334	Flam liquid 2 Acute aquatic 2	Flame Environ haz	Danger	H225 H401	P210; P233; P240; P241; P242; P243; P260; P264; P270; P271; P273; P391; P280; P304+P340; P312; P321; P301+P330+P331; P303+P361+P353; P363; P370+P378; P403+P233; P403+P235; P405; P501	
603-042-00-3	Aluminium (II) isopropylate	555-31-7	1325	Flam solid 1	Flame	Danger	H228	P210; P240; P241; P280; P370+P378	



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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
013-004-00-2	Aluminium alkyls	—	3051	Pyro liquid 1 Skin corr 1B	Flame Corrosion	Danger	H250 H314	P210; P222; P260; P262; P264; P280; P370+P378; P301+P330+P331; P303+P361+P353; P302+P334; P363; P304+P340; P312; P321; P305+P351+P338; P405; P422; P501	
013-003-00-7	Aluminium chloride, anhydrous	07446-70-0	1726	Skin corr 1C	Corrosion	Danger	H314	P260; P262; P264; P280; P301+P330+P331; P303+P361+P353; P363; P304+P340; P321; P305+P351+P338; P405; P501	
001-002-00-4	Aluminium lithium hydride	16853-85-3	2813	Water-react 1	Flame	Danger	H260	P223; P231+P232; P280; P335+P334; P370+P378; P402+P404; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
015-004-00-8	Aluminium phosphide	20859-73-8	1397	Water-react 1 Acute tox 2 (oral) Acute tox 2 (inhalation) Acute aquatic 1	Flammable Toxic Environ haz	Danger	H260 H300 H330 H400	P223; P260; P264; P270; P271; P273; P391; P284; P231+P232; P335+P334; P301+P310; P320; P330; P304+P340; P310; P321; P370+P378; P403+P233; P402+P404; P405; P501	
015-004-00-8	Aluminium phosphide (pesticide)	20859-73-8	3048	Water-react 1 Acute tox 2 (oral) Acute tox 2 (inhalation) Acute aquatic 1	Flammable Toxic Environ haz	Danger	H260 H300 H330 H400	P102; P223; P260; P264; P270; P271; P273; P391; P284; P231+P232; P335+P334; P301+P310; P320; P330; P304+P340; P310; P321; P370+P378; P403+P233; P402+P404; P405; P501	
013-001-00-6	Aluminium powder (pyrophoric)	7429-90-5	1383	Water-react 2 Pyro solid 1	Flame	Danger	H261 H250	P210; P222; P223; P280; P231+P232 P335+P334; P370+P378; P302+P334; P402+P404; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
013-002-00-1	Aluminium powder (stabilized; coated)	—	1309	Water-react 2 Flam solid 1	Flame	Danger	H261 H228	P210; P223; P240; P241; P280; P231+P323; P335+P334; P370+P378; P402+P404; P501	
603-042-00-3	Aluminium-tri-isopropoxide, see Aluminium (II) isopropylate	555-31-7	1325						
612-034-00-9	2-Amino-4,6-dinitrophenol, wetted with not less than 20 % water, by mass	96-91-3	3317	Flam solid 1 Chron aquatic 3	Flame	Danger	H228 H412	P210; P240; P241; P280; P273; P391; P370+P378; P501	
612-052-00-7	(R)-2-Aminobutane, see (R)-sec- Butylamine								
612-052-00-7	(S)-2-Aminobutane, see (S)-sec- Butylamine								
612-005-00-0	n-Aminobutane, see n-Butylamine								
612-052-00-7	2-Aminobutane, see sec-Butylamine								

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-075-00-2	2-Aminoethylidimethylamine, concentration $\geq 25$ %, by mass	108-00-9	2734	Flam liquid 2 Skin corr 1A	Corrosion Flame	Danger	H225 H314	P210; P233; P240; P241; P242; P243; P260; P262; P264; P280; P301+P330+P331; P303+P361+P353; P363; P304+P340; P310; P305+P351+P338; P321; P370+P378; P403+P233; P403+P235; P405; P501	
612-075-00-2	2-Aminoethylidimethylamine, concentration $\geq 5$ % < 10 %, by mass	108-00-9	—	Skin irritant 2	Exclamation mark	Warning	H315	P264; P280; P302+P352; P321; P332+P313; P362	Not dangerous for transport.
612-075-00-2	2-Aminoethylidimethylamine, concentration $\geq 10$ % < 25 %, by mass	108-00-9	2734	Flam liquid 3 Skin corr 1B	Corrosion Flame	Danger	H226 H314	P210; P233; P240; P241; P242; P243; P260; P262; P264; P280; P301+P330+P331; P303+P361+P353; P363; P304+P340; P310; P321; P305+P351+P338; P370+P378; P403+P235; P405; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-007-00-1	2-Aminopropane	75-31-0	1221	Flam liquid 1 Skin irritant 2 Eye Irritant 2A STOT single 3 (respiratory)	Flame Exclamation mark	Danger	H224 H315 H319 H335	P210; P233; P240; P241; P242; P243; P264; P280; P261; P271; P304+P340; P312; P321; P303+P361+P353; P362; P305+P351+P338; P337+P313; P370+P378; P403+P233; P501	
612-062-00-1	3-Aminopropyl diethylamine, concentration $\geq 25$ %, by mass	104-78-9	2734	Flam liquid 3 Skin corr 1B Skin sens 1	Corrosion Flame	Danger	H226 H314 H317	P210; P233; P240; P241; P242; P243; P264; P270; P280; P304+P430; P312; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P370+P378; P403+P233; P403+P235; P405; P501	
612-062-00-1	3-Aminopropyl diethylamine, concentration $\geq 5$ % < 10 %	104-78-9	—	Skin irritant 3	Exclamation mark	Warning	H316	P264; P280; P321; P362; P302+P352; P332+P313	
612-062-00-1	3-Aminopropyl diethylamine, concentration $\geq 10$ % < 25, by mass	104-78-9	—	Skin irritant 2 Skin sens 1	Exclamation mark	Warning	H315 H317	P261; P264; P280; P321; P302+P352; P333+P313; P501	

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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
007-001-00-5	Ammonia aqueous solution, relative density less than 0,880 at 15 °C and less than 50 % ammonia	7664-41-7	3318	Acute tox 3 (inhalation) Skin corr 1C Acute aquatic 1	Corrosion Toxic Environ haz	Danger	H331 H314 H400	P260; P261; P262; P264; P271; P273; P391; P280;; P304+P340; P310; P320; P301+P330+P331; P303+P361+P353; P363; P403+P233; P305+P351+P338; P405; P501	
007-001-00-5	Ammonia, anhydrous	7664-41-7	1005	Flam gas 2 Acute tox 3 (inhalation) Skin corr 1B Acute aquatic 1	Corrosion Flame Toxic Environ haz	Danger	H221 H331 H314 H400	P260; P262; P264; P271; P273; P391; P284; P304+P340; P310; P320; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P377; P401; P403+P233; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
007-001-00-5	Ammonia, aqueous solution, relative density between 0,880 and 0,957 at 15 °C with more than 10 % but not more than 35 % ammonia	7664-41-7	2672	Acute tox 3 (inhalation) Skin corr 1C Acute aquatic 1	Corrosion Toxic Environ haz	Danger	H331 H314 H400	P260; P261; P262; P264; P271; P273; P391; P280; P284; P304+P340; P310; P320; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P403+P233; P405; P501	
007-001-00-5	Ammonia, aqueous solution, relative density less than 0,880 at 15 °C with more than 35 % but not more than 50 % ammonia	7664-41-7	2073	Skin corr 1C Acute aquatic 1	Corrosion Environ haz	Danger	H314 H400	P260; P264; P273; P391; P280; P301+P330+P331; P303+P361+P353; P363; P304+P340; P310; P321; P305+P351+P338; P403+P233; P405; P501	
607-378-00-1	Ammonium (Z)- $\alpha$ -methoxyimino-2-furylacetate	97148-39-5	1325	Flam solid 1	Flame	Danger	H228	P210; P240; P241; P280; P370+P378	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
024-003-00-1	Ammonium dichromate	7789-09-5	1439	Oxidize solid 2 Carcinogen 1B Mutagen 1B Acute tox 3 (oral) Acute tox 2 (inhalation) STOT repeat 1 Skin corr 1B Acute aquatic 1 Chron aquatic 1	Flame over circle Corrosion Toxic Health haz	Danger	H272 H350 H340 H301 H330 H372 H314 H400 H410	P201; P202; P210; P220; P260; P261; P262; P264; P270; P271; P273; P391 P281; P285; P304+P340; P320; P342+P311; P370+P378; P301+P330+P331; P322; P303+P361+P353; P363; P333+P313; P305+P351+P338; P403+P233; P405; P501	
017-009-00-0	Ammonium perchlorate, containing ≥ 80 % ammonium perchlorate of particle size 0 – 30 µm	7790-98-9	0402	Explosive 1.1D	Explosive	Danger	H201	P201; P230; P240; P250; P280; P370+P380; P372; P373; P401; P501	Contact the Chief Inspector of Explosives, SA Police Service for allocation of the UN number.
017-009-01-8	Ammonium perchlorate, containing < 80 % of particle size 0 - 30 µm	7790-98-9	1442	Oxidize solid 1	Flame over circle	Danger	H271	P210; P220; P221; P280; P283; P306+P360; P371+P380+P375; P370+P373; P501	



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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
016-060-00-6	Ammonium persulfate	7727-54-0	1444	Oxidize solid 3 Resp sens 1 Skin sens 1 Acute aquatic 1 Chron aquatic 1	Flammable over circle Heath haz Environ haz		H272 H315 H334 H400 H410	P210; P220; P261; P264; P270; P271; P273; P391; P280; P285; P362; P304+P340; P312; P321; P342+P311; P305+P351+P338; P337+P313; P302+P352; P362; P332+P313; P370+P378; P403+P233; P501	
607-130-00-2	sec-Amyl acetate	626-38-0	1104	Flam liquid 3 STOT single 3 (respiratory) Eye damage 1	Corrosion Flame	Danger	H226 H335 H318	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P321; P303+P361+P353; P363; P305+P351+P338; P370+P378; P403+P233; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
602-022-00-1	Amyl chloride	543-59-9	1107	Flam liquid 2 Skin irritant 2 Eye itrritant 2A Aspiration haz 2	Flame Health haz	Danger	H225 H315 H319 H305	P210; P233; P240; P241; P242; P243; P264; P280; P321; P301+P310; P303+P361+P353; P332+P313; P305+P351+P338; P337+P313; P403+P235; P405; P501	
607-018-01-0	n-Amyl formate, see Pentyl formate	638-49-3	1109						
007-020-00-9	Amyl nitrite, mixed isomers	110-46-3	1113	Flam liquid 2 Acute tox 4 (inhalation) Acute tox 4 (oral)	Flame	Danger	H225 H332 H302	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P304+P340; P312; P321; P301+P330+P331; P303+P361+P353; P363; P370+P378; P403+P233; P403+P235; P501	
—	Anthracene	120-12-7	3077	Acute aquatic 1 Chron aquatic 1	Environ haz	Warning	H400 H410	P273; P391; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
033-006-00-7	Arsine	7784-42-1	2188	Flam gas 1 Acute tox 2 (inhalation) STOT repeat 2 Acute aquatic 1 Chron aquatic 1	Flame Toxic Environ haz	Danger	H220 H330 H373 H400 H410	P210; P260; P271; P273; P391; P280; P284; P314; P377; P381; P391; P304+P340; P320; P310; P403+P233; P405; P501	
613-001-00-1	Aziridine, see Ethyleneimine, stabilized	151-56-4							
608-019-00-1	2,2'-Azobis (2-methyl-2,2'-propionitrile)	78-67-1	3224	Self-react solid C Acute tox 4 (oral) Chron aquatic 3	Flame	Danger	H242 H302 H412	P210; P220; P234; P264; P270; P273; P280; P301+P312; P330; P370+P378; P403+P235; P411; P420; P501	
017-003-00-8	Barium chlorate Solid Solution	13477-00-4	1445 3405	Oxidize solid 1 Acute tox 4 (inhalation) Acute tox 4 (oral) Chron aquatic 2	Flame over circle Environ haz	Danger	H271 H332 H302 H411	P210; P220; P261; P264; P270; P271; P280; P283; P321; P304+P340; P312; P321; P306+P360; P371+P380+P375; P301+P330+P331; P370+P378; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
017-007-00-X	Barium perchlorate	13465-95-7	1447 3406	Oxidize solid/liquid 1 Acute tox 4 (oral) Acute tox 4 (inhalation)	Flame over circle	Danger	H271 H302 H332	P210; P220; P261; P264; P270; P271; P280; P283; P304+P340; P312; P321; P301+P330+P331; P306+P360; P371+P380+P375; P370+P378; P501	
056-001-00-1	Barium peroxide	1304-29-6	1449	Oxidize solid 2 Acute tox 4 (inhalation) Acute tox 4 (oral)	Flame over circle	Danger	H272 H332 H302	P210; P220; P264; P270; P261; P271; P280; P304+P340; P312; P321; P301+P330+P331; P370+P378; P501	
601-020-00-8	Benzene	71-43-2	1114	Flam liquid 2 Carcinogen 1A Mutagen 1 STOT repeat 1 Aspirate tox 1 Eye irritant 2A	Flame Health haz	Danger	H225 H350 H340 H372 H304 H319	P201; P202; P210; P233; P240; P241; P242; P243; P260; P264; P270; P281; P321; P308+P313; P301+P330+P331; P314; P303+P361+P353; P362; P332+P313; P305+P351+P338; P337+P313; P370+P378; P403+P235; P405; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
602-056-00-7	Benzotrifluoride	98-08-8	2338	Flam liquid 2 Chron aquatic 2	Flame Environ haz	Danger	H225 H411	P210; P233; P240; P241; P242; P243; P273; P391; P280; P303+P361+P353; P370+P378; P403+P235; P501	
—	Benzine	8032-32-4	1268	Flam liquid 2 Acute tox 3 (inhalation) Aspirate haz 2	Flame Toxic Health haz	Danger	H225 H301 H331 H305	P102; P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P301+P310; P331; P304+P340; P312; P321; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	Benzine is a household product used to remove fat stains from textile. However, the name <i>benzine</i> is archaic and misleading and should not be confused with <i>benzene</i> . See also <i>ligroin</i> .
617-008-00-0	Benzoyl peroxide, see Dibenzoyl peroxide	94-36-0							
602-057-00-2	Benzyl bromide	100-39-0	1737	Eye irritant 2A STOT single 3 (respiratory) Skin irritant 2	Exclamation mark	Warning	H319 H335 H315	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P305+P351+P338; P337+P313; P303+P361+P353; P362; P332+P313; P403+P233	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-074-00-7	Benzyltrimethylamine, concentration ≥ 25 %, by mass	103-83-3	2619	Flam liquid 3 Acute tox 4 (inhalation) Acute tox 4 (oral) Skin corr 1B Chron aquatic 3	Corrosion Flame Environ haz	Danger	H226 H332 H302 H314 H412	P210; P233; P240; P241; P242; P243; P260; P264; P270; P271; P273; P391; P280; P304+P340; P314; P322; P370+P378; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P403+P233; P403+P235; P405; P501	
603-046-00-5	Bis(chloromethyl) ether	542-88-1	2249	Flam liquid 2 Carcinogen 1A Acute tox 2 (inhalation) Acute tox 3 (dermal)	Flammable Toxic Health haz	Danger	H225 H350 H330 H311	P201; P202; P210; P233; P240; P241; P242; P243; P260; P271; P281; P284;; P308+P313; P304+P340; P310; P320 P303+P361+P353; P363; P370+P378; P403+P233; P405; P501	Bis (chloromethyl) ether has a closed-cup flashpoint of 18°C.

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
014-031-00-2	Bis (1-methylethyl)-dimethoxysilane	18230-61-0	3271	Flam liquid 3 Skin irritant 2 Skin sens 1 Chron aquatic 3	Flame Exclamation mark Environ haz	Warning	H226 H315 H317 H412	P210; P233; P240; P241; P242; P243; P264; P273; P391; P280; P321; P303+P361+P353; P332+P313; P362; P370+P378; P403+P233; P403+P235; P501	
612-018-00-1	Bis (2,4,6-trinitrophenyl)amine, see Hexyl	131-73-7							
603-029-00-2	Bis (2-chloroethyl) ether, see Di-chloroethyl ether	111-44-4							
603-176-00-2	1,2-Bis (2-methoxyethoxy)ethane, see Triethylene glycol dimethyl ethe	112-49-2							
603-139-00-0	Bis (2-methoxyethyl) ether, see Diethylene glycol dimethyl ether	111-96-6							
612-123-00-2	Bis (hydroxylammonium) sulfate	10039-54-0	2865	Metal corr 1	Corrosive	Warning	H290	P234; P390; P406	
617-006-00-X	Bis (α,α-dimethylbenzyl) peroxide	80-43-3	3109 3110	Org perox F Eye irritant 2A Skin irritant 2 Chron aquatic 2	Flame Environ haz	Warning	H242 H319 H315 H411	P210; P220; P234; P264; P273; P391; P280; P370+P378; P302+P352; P362; P332+P313; P305+P351+P338; P321; P337+P313; P370+P380+P375;; P403+P235; P411; P420	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
005-003-00-0	Boron tribromide	10294-33-4	2692	Acute tox 2 (inhalation) Acute tox 2 (oral) Skin corr 1A	Corrosion Toxic	Danger	H330 H300 H314	P260; P262; P264; P271 P280; P284; P321; P304+P340; P310; P320 ; P301+P330+P331; P303+P361+P353; P363 ; P305+P351+P338; P403+P233; P405; P501	
005-002-00-5	Boron trichloride	10294-34-5	1741	Acute tox 2 (inhalation) Acute tox 2 (oral) Skin corr 1B	Corrosion Toxic	Danger	H330 H300 H314	P260; P262; P264; P270; P271; P280; P321; P304+P340; P310; P320; P301+P330+P331; P303+P361+P353; P363 ; P305+P351+P338; P403+P233; P405; P501	
005-001-00-X	Boron trifluoride	7637-07-2	1008	Acute tox 2 (inhalation) Skin corr 1A	Corrosion Toxic	Danger	H330 H314	P260; P262; P264; P271 P280; P284; P304+P340; P310 P320 ; P301+P330+P331; P303+P361+P353; P363 ; P305+P351+P338; P403+P233 ; P405; P501	



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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-172-00-1	Brodifacoum (ISO common name)	56073-10-0	3024 3025 3026 3027	Acute tox 1 (oral) Acute tox 1 (dermal) STOT repeat 1	Toxic Health haz	Danger	H300 H310 H372	P102; P260; P262; P264; P270; P280; P321; P310; P314; P322; P361; P363; P330; P301+P310; P302+P350; P405; P501	Brodifacoum is a coumarin anticoagulant analogue used as a rodenticide. For transport, different UN numbers are assigned to a pesticide depending its physical form and flammability. See annex B.2 of SANS 10228.
—	Bromadiolone	28772-56-7	3027	Acute tox 1 (oral) Acute tox 1 (inhalation) STOT repeat 1 Acute aquatic 1 Chron aquatic 1	Toxic Health haz Environ haz	Danger	H300 H330 H372 H400 H410	P102; P260; P264; P270; P271; P273; P391; P284; P321; P314; P301+P310; P321; P330; P304+P340; P310; P320; P403+P233; P405; P501	Bromadiolone is a coumarin anticoagulant analogue used as a rodenticide. For transport, different UN numbers are assigned to a pesticide depending its physical form and flammability. See annex B.2 of SANS 10228.
602-060-00-9	Bromobenzene	108-86-1	2514	Flam liquid 3 Skin irritant 2 Chron aquatic 2	Flame Environ haz	Warning	H226 H315 H411	P210; P233; P240; P241; P242; P243; P264; P280; P321; P273; P391; P301+P330+P331; PP303+P361+P353; P332+P313; P370+P378;; P403+P235; P501	
602-055-00-1	Bromoethane see Ethyl bromide	74-96-4	1891						

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
602-024-00-2	Bromoethylene	593-60-2	3312	Flam gas 1 Carcinogen 1B	Flame Health haz	Danger	H220 H350	P201; P202; P210; P281; P308+P313; P377; P381; P403; P405; P501	
602-019-00-5	1-Bromopropane	106-94-5	2344	Flam liquid 2 Reprod 1B STOT repeat 2 Eye irritant 2A STOT single 3 (respiratory) STOT single 3 (narcotic)	Flame Heath haz	Danger	H225 H360 H373 H319 H335 H336	P201; P202; P210; P233; P240; P241; P242; P243; P261; P271; P264; P280; P304+P340; P312; P321; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P405 P501	
602-085-00-5	2-Bromopropane	75-26-3	2344	Flam liquid 2 Reprod tox 1A	Flame Heath haz	Danger	H225 H360	P201; P202; P210; P233; P240; P241; P242; P243; P281; P308+P313; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	
602-057-00-2	$\alpha$ - Bromotoluene, see Benzyl bromide	100-39-0							

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-012-00-4	Butene	624-64-6	1012	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	
601-013-00-X	Buta-1,3-diene, see 1,3-Butadiene	106-99-0	1010						
601-013-00-X	1,3-Butadiene	106-99-0	1010	Flam gas 1 Carcinogen 1A Mutagen 1B	Flame Health haz	Danger	H220 H350 H340	P201; P202; P210; P281; P377; P381; P308+P313; P403; P405; P501	
603-004-00-6	Butan-1-ol, see n-Butanol	71-36-3	1120						
601-004-00-0	Butane	106-97-8	1011	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	
601-004-01-8	Butane containing $\geq 0,1$ % butadiene	106-97-8	1011	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	
603-127-00-5	2-Butanol	78-92-2	1120	Flam liquid 3 Eye irritant 2A STOT single 3 (respiratory) STOT single 3 (narcotic)	Flame Exclamation mark	Warning	H226 H319 H335 H336	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P362; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-004-00-6	n-Butanol	71-36-3	1120	Flam liquid 3 Skin irritant 2 Eye damage 1 STOT single 3 (respiratory and narcotic)	Corrosion Flame	Danger	H226 H315 H318 H335 H336	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P304+P340; P312; P321; P303+P361+P353; P363; P332+P313; P305+P351+P338; P337+P313; P370+P378; P403+P233; P405; P403+P235; P501	
606-002-00-3	Butanone, see Ethyl methyl ketone	78-93-3							
605-009-00-9	2-Butenal, see Crotonaldehyde	4170-30-3							
601-012-00-4	cis-2-Butene	590-18-1	1012	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	
601-012-00-4	1-Butene	106-98-9	1012	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	
603-102-00-9	1-Butene oxide, see 1,2-Butylene oxide	106-88-7	3022						
601-012-00-4	Butene, mixed-1-and-2-isomers	107-01-7	1012	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
006-083-00-X	Butocarboxim (ISO common name)	34681-10-2	2757 2758 2991 2992	Flam liquid 3 Acute tox 3 (oral) Eye irritant 2A Acute aquatic 1 Chron aquatic 1	Flammable Toxic Environ haz	Danger	H226 H301 H319 H400 H410	P102; P210; P233; P240; P241; P242; P243; P264; P270; P273; P391; P280; P321; P305+P351+P338; P337+P313; P301+P330+P331; P303+P361+P338; P302+P253; P391; P370+P378; P403+P235; P405; P501	Butacarboxim is an oxime carbamate used as a pesticide and an acaricide.  For transport, different UN numbers are assigned to a pesticide depending its physical form and flammability (see annex B.2 of SANS 10228).
603-129-00-6	1-tert-Butoxy-2-propanol	57018-52-7	3271	Flam liquid 3 Eye irritant 2A Skin irritant 2	Flame Exclamation mark	Warning	H226 H319 H315	P210; P233; P242; P243; P264; P280; P321; P303+P361+P353; P363 P332+P313; P305+P351+P338; P337+P313; P370+P378; P403+P235; P501	
607-038-00-2	2-Butoxyethyl acetate	112-07-2	—	Acute tox 4 (oral) Acute tox 4 (dermal)	Exclamation mark	Warning	H302 H312	P264; P270; P280; P301+P312; P330; P302+P352;P312; P322; P363; P501	
603-039-00-7	Butyl 2,3-epoxypropyl ether, see Butyl glycidyl ether	2426-08-6							

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-025-00-1	n-Butyl acetate	123-86-4	1123	Flam liquid 3 STOT single 3 (narcotic)	Flame Exclamation mark	Warning	H226 H336	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P321; P303+P361+P353; P363; P370+P378; P403+P233; P403+P235; P501	
607-026-00-7	sec-Butyl acetate	105-46-4	1123	Flam liquid 2	Flame	Danger	H225	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	
607-026-00-7	tert-Butyl acetate	540-88-5	1123	Flam liquid 2	Flame	Danger	H225	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-062-00-3	n-Butyl acrylate	141-32-2	2348	Flam liquid 3 Eye irritant 2 STOT single 3 (respiratory) Skin sens 1	Flame Exclamation mark	Warning	H226 H319 H335 H317	P210; P233; P240; P241; P242; P243; P261; P264; P271; P272; P280; P304+P340; P312; P321; P303+P361+P353; P333+P313; P305+P351+P338; P337+P313; P370+P378; P403+P235; P501	
607-245-00-8	tert-Butyl acrylate, stabilized	1663-39-4	2348	Flam liquid 2 STOT single 3 (inhalation) Eye irrit 2A Skin sens 1 Chron aquat 3	Flame Exclamation mark Exclamation mark	Danger	H225 H335 H319 H317 H412	P210; P233; P240; P241; P242; P243; P261; P264; P271; P272; P280; P304+P340; P312; P321; P303+P361+P353; P363; P333+P313; P305+P351+P338; P337+P313; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
603-005-00-1	tert-Butyl alcohol	75-65-0	1120	Flam liquid 3	Flame	Warning	H226	P210; P233; P240; P241; P42; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	

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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-004-00-6	n-Butyl alcohol	71-36-3	1120	Flam liquid 3 Eye irritant 2A STOT single 3 (respiratory) STOT single 3 (narcotic)	Flame Exclamation mark	Warning	H226 H319 H335 H336	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P305+P351+P338; P337+P313 P370+P378; P403+P233; P403+P235; P501	
603-004-00-6	1-Butyl alcohol, see n-Butyl alcohol	71-36-3							
607-031-00-4	Butyl butyrate	109-21-7	3272	Flam liquid 3	Flame	Warning	H226	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	
602-059-00-3	Butyl chloride, see Chlorobutane	109-69-3							



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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-138-00-6	Butyl chloroformate	592-34-7	2743	Flam liquid 3 Acute tox 3 (inhalation) Skin corr 1B	Flame Toxic Corrosive	Danger	H226 H331 H314	P210; P233; P240; P242; P243; P260; P271; P280; P304+P340; P312; P321; P308+P313; P301+P330+P331; P303+P361+P353; P363; P370+P378; P305+P351+P338; P403+P233; P403+P235; P405; P501	
603-054-00-9	Butyl ether, see n-Dibutyl ether	142-96-1							
606-003-00-9	Butyl ethyl ketone	106-35-4	2710	Flam liquid 3 Acute tox 4 (inhalation) Eye irritant 2A	Flame Exclamation mark	Warning	H226 H332 H319	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P403+P235; P501	
607-017-00-8	n-Butyl formate	592-84-7	1128	Flam liquid 2 Eye irrit 2A	Flame Exclamation mark	Danger	H225 H319	P210; P233; P240; P241; P242; P243; P264; P280; P303+P361+P353; P370+P378; P305+P351+P338; P337+P313; P403+P233; P403+P235; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-017-00-8	tert-Butyl formate	762-75-4	2393	Flam liquid 2 Eye irritant 2 STOT single 3 (respiratory)	Flame Exclamation mark	Danger	H225 H319 H335	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P501	
603-039-00-7	Butyl glycidyl ether	2426-08-6	3271	Flam liquid 3 Carcinogen 2 Mutagen 2 Skin sens 1 Chron aquatic 3	Flame Health haz	Warning	H226 H351 H341 H317 H412	P202; P210; P233; P40; P241; P242; P243; P261; P272; P280; P321; P308+P313; P303+P361+P353; P333+P313; P363; P370+P378; P273; P391; P403+P235; P405; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
617-001-00-2	tert-Butyl hydroperoxide, concentration ≤ 72 % and containing ≥ 28 % water	75-91-2	3109	Org perox F Flam liquid 3 Acute tox 2 (inhalation) Skin corr 1C Eye damage 1 Chron aquatic 2	Corrosion Flame Toxic Environ haz	Danger	H242 H226 H330 H311 H319 H411	P210; P220; P233; P234; P240; P241; P242; P243; P260; P261; P262; P264; P271; P272; P280; P284; P304+P340; P310; P320; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P273; P391; P370+P378; P403+P233; P403+P235; P405; P420; P501	
607-033-00-5	n-Butyl methacrylate, stabilized	97-88-1	2227	Flam liquid 2 Eye irritant 2A STOT single 3 (respiratory) Skin sens 1	Flame Exclamation mark	Danger	H225 H319 H335 H317	P210; P233; P240; P241; P242; P243; P261; P264; P271; P272; P280; P304+P340; P312; P321; P303+P361+P353; P333+P313; P363; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-181-00-X	tert-Butyl methyl ether	1634-04-4	1179	Flam liquid 2 Skin irritant 2	Flame Exclamation mark	Danger	H225 H315	P210; P233; P240; P241; P242; P243; P264; P280; P321; P303+P361+P353; P332+P313; P363; P370+P378; P403+P233; P403+P235; P501	
606-030-00-6	Butyl methyl ketone, see 2-Hexanone	591-78-6							
007-016-00-7	n-Butyl nitrite	544-16-1	2351	Flam liquid 2 Acute tox 3 (inhalation) Acute tox 3 (oral)	Flame Toxic	Danger	H225 H331 H301	P210; P233; P240; P241; P242; P243; P260; P264; P270; P271; P280; P284; P304+P340; P312; P321; P301+P330+P310; P303+P361+P353; P370+P378; P403+P233; P403+P235; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
007-018-00-8	sec-Butyl nitrite	924-43-6	2351	Flam liquid 2 Acute tox 4 (inhalation) Acute tox 4 (oral)	Flame Exclamation mark	Danger	H225 H332 H302	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P304+P340; P312; P321; P301+P330+P331; P303+P361+P353; P370+P378; P403+P233; P403+P235; P501	
007-019-00-3	tert-Butyl nitrite	540-80-7	2351	Flam liquid 2 Acute tox 4 (inhalation) Acute tox 4 (oral)	Flame Exclamation mark	Danger	H225 H332 H302	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P304+P340; P312; P321; P301+P330+P331; P303+P361+P353; P370+P378; P403+P233; P403+P235; P501	
607-029-00-3	n-Butyl propionate	590-01-2	1914	Flam liquid 3	Flame	Warning	H226	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	No flammability data available. The substance has been classified as category 3 in line with transport (for transport packing group III has been assigned)

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-029-00-3	sec-Butyl propionate	591-34-4	1914	Flam liquid 3	Flame	Warning	H226	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	No flammability data available. The substance has been classified as category 3 in line with transport (for transport packing group III has been assigned)
607-029-00-3	tert-Butyl propionate	20487-40-5	1914	Flam liquid 2	Flame	Danger	H225	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	tert-Butyl propionate has a closed-cup flashpoint of 16 °C that results in flammable liquid of category 2.
617-007-00-5	tert-Butyl $\alpha,\alpha$ -dimethylbenzyl peroxide Liquid Solid	3457-61-2	3107 3108	Org peroxide E Skin irritant 2 Chron aquatic 2	Flame Environ haz	Warning	H242 H315 H411	P210; P220; P234; P264; P280; P321; P302+P352; P332+P313; P362; P370+P378; P370+P380+P375; P403+P235; P411; P420	
609-025-00-7	6-sec-Butyl-2,4-dinitrophenol, see Dinoseb	88-85-7							
609-030-00-4	2-tert-Butyl-4,6-dinitrophenol, see Dinoterb	1420-07-1							

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-052-00-7	(R)-sec-Butylamine	13250-12-9	2734	Skin corr 1A Flam liquid 2 Acute aquatic 1	Corrosion Flame Environ haz	Danger	H225 H314 H400	P210; P233; P243; P262; P264; P270; P273; P280; P312; P321; P391; P303+P361+P353; P305+P351+P338; P370+P378; P273; P391; 403+P235; P405; P501	
612-052-00-7	(S) sec-Butylamine	513-49-5	2734	Flam liquid 2 Acute tox 4 (inhalation) Skin corr 1A Acute aquatic 1	Corrosion Flame Environ haz	Danger	H225 H332 H314 H400	P210; P233; P240; P241; P242; P243; P264; P270; P271; P280; P312; P321; P301+P330+P331; P310; P370+P378; P273; P391; P403+P235; P405; P501	
612-052-00-7	sec-Butylamine	13952-84-6	2734	Flam liquid 2 Acute tox 3 (oral) Skin corr 1A Acute aquatic 1	Corrosion Flame Environ haz	Corrosion Flame Toxic	H225 H301 H314 H400	P210; P233; P240; P241; P242; P243; P260; P264; P270; P280; P304+P340; P301+P330+P331; P321; P303+P361+P353; P363; P305+P351+P338; P370+P378; P273; P391; P403+P235; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-005-00-0	n-Butylamine, conc $\geq 10\%$ < 25 %, by mass	109-73-9	1125	Flam liquid 3 Acute tox 4 (oral) Skin corr 1A	Corrosion Flame	Danger	H226 H302 H314	P210; P233; P240; P241; P242; P243; P260; P262; P264; P270; P280; P304+P340; P321; P301+P312; P330; P303+P361+P353; P363; P370+P378; P305+P351+P338; P403+P235; P405; P501	
612-005-00-0	n-Butylamine, concentration $\geq 25\%$ , by mass	109-73-9	1125	Flam liquid 2 Acute tox 4 (oral) Skin corr 1A	Corrosion Flame	Danger	H225 H302 H314	P210; P233; P240; P241; P242; P243; P260; P264; P270; P280; P304+P340; P321; P305+P351+P338; P301+P361+P353; P303+P361+P353; P363; P370+P378; P403+P235; P405; P501	
612-005-00-0	n-Butylamine, conc $\geq 5\%$ < 10 %, by mass	109-73-9	2735	Skin corr 1B	Corrosion	Danger	H314	P260; P264; P280; P301+P330+P331; P303+P361+P353; P363; P304+P340; P310; P321; P305+P351+P338; P405; P501	



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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-005-00-0	n-Butylamine, conc $\geq 1\%$ < 5 %, by mass	109-73-9	–	Skin irritant 2	Exclamation mark	Warning	H315	P264; P280; P305+P351+P338; P337+P313; P302+P352; P321; P332+P313; P362	Not hazardous for transport.
–	Butylammonium chloride	3858-78-4	–	Reprod tox 1B	Health haz	Danger	H360	P201; P202; P281; P308+P313; P405; P501	Not hazardous for transport
033-007-00-2	tert-Butylarsine	4262-43-5	2845	Pyro liquid 1 Acute tox 2	Flame Toxic	Danger	H250 H330	P210; P222; P260; P271; P280; P284; P320; P302+P334; P310; P304+P340; P370+P378 P403+P233; P405; P422; P501	
–	4-tert-Butylbenzoic acid	98-73-7	–	Reprod tox 1B STOT repeat 1 Acute tox 4 (oral) Chron aquatic 2	Health haz Environ haz	Danger	H360 H372 H302 H411	P201; P202; P260; P264; P270; P273; P391; P281; P301+P312; P330; P314; P308+P313; P405; P501	Not hazardous for transport

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-102-00-9	1,2-Butylene oxide	106-88-7	3022	Flam liquid 2 Carcinogen 2 Eye irritation 2A Skin irritant 2 Chron aquatic 3	Flame Health haz Environ haz	Danger	H225 H351 H319 H315 H413	P201; P202; P210; P233; P240; P241; P242; P243; P264; P270; P280; P301+P312; P330; P321; P303+P361+P353; P332+P313; P305+P351+P338; P337+P313; P370+P378; P273; P391; P403+P235; P501	
601-012-00-4	Butylene, see Butene	106-98-9							
—	4-Butylphenol	98-54-4	2430	Repod tox 2 STOT single 3 (inhalation) Skin irritant 2A Eye damage 1	Corrosion Health haz	Danger	H361 H335 H315 H318	P201; P202; P261; P264; P271; P281; P302+P352; P321; P332+P313; P362; P304+P340; P312; P305+P351+P338; P310; P308+P313; P403+P233; P405; P501	
605-006-00-2	Butyraldehyde	123-72-8	1129	Flam liquid 2	Flame	Danger	H225	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
608-005-00-5	n-Butyronitrile	109-74-0	2411	Flam liquid 2 Acute tox 4 (inhalation) Acute tox 3 (dermal) Acute tox 3 (oral)	Flame Toxic	Danger	H225 H331 H311 H301	P210; P233; P240; P242; P243; P260; P264; P270; P271; P280; P284; P304+P340; P312; P321; P301+P330+P331; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	n-Butyronitrile has a closed-cup flashpoint of 18°C.
607-136-00-5	Butyryl chloride	141-75-3	2353	Flam liquid 2 Skin corr 1B	Flame Corrosion	Danger	H225 H314	P210; P233; P240; P241; P242; P243; P260; P264; P280; P303+P361+P353; P363; P370+P378; P301+P330+P331; P304+P340; P312; P321; P305+P351+P338; P403+P235; P405; P501	
048-004-00-1	Cadmium cyanide	542-83-6	1588	Acute tox 1 (oral) Acute tox 1 (inhalation) STOT repeat 2 Acute aquatic 1 Chron aquatic 1	Toxic Health haz Environ haz	Danger	H300 H330 H373 H400 H410	P260; P264; P270; P271; P273; P391; P284; P310; P314' P320; P321; P330; P301+P310; P304+P340; P403+P233; P405; P501	<b>WARNING</b> In contact with moisture, water and acid, hydrogen cyanide (HCN) is formed that is EXTREMELY poisonous.

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
048-004-00-1	Cadmium dicyanide	542-83-6	3439	Carcinogen 1B Acute tox 1 (oral) Acute tox 1 (dermal) Acute tox 1 (inhalation) Acute aquatic 1 Chron aquatic 1	Toxic Health haz Environ haz	Danger	H350 H300 H310 H330 H400 H410	P201; P202; P260; P264; P270; P271; P281; P284; P301+P310; P330; P310; P304+P340; P312; P321; P302+P350; P361; P322; P363; P308+P313; P273; P391; P403+P233; P405; P510	<b>WARNING</b> In contact with moisture, water and acid, HCN is formed that is EXTREMELY poisonous.
048-003-00-6	Cadmium diformate	4464-23-7	2570	Acute tox 3 (oral) Acute tox 3 (inhalation) STOT repeat 1 Acute aquatic 1 Chron aquatic 1	Health haz Toxic Environ haz	Danger	H301 H331 H372 H400 H410	P260; P264; P270; P271; P301+P310; P330; P304+P340; P273; P391; P403+P233; P405; P501	
048-005-00-7	Cadmium fluorosilica, see Cadmium-hexafluorosilicate	17010-21-8							
048-003-00-6	Cadmium formate	4464-23-7	2570	Carcinogen 1B Acute tox 3 (oral) Acute tox 3 (inhalation) STOT repeat 2 Acute aquatic 1 Chron aquatic 1	Health haz Toxic Environ haz	Danger	H350 H301 H331 H373 H400 H410	P201; P202; P260; P264; P270; P271; P273; P281; P391; P301+P310; P330; P314; P304+P340; P311; P321; P308+P313; P403+P233; P405; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
048-005-00-7	Cadmium hexafluorosilicate	17010-21-8	2570	Carcinogen 1B Acute tox 2 (oral) Acute tox 3 (inhalation) STOT repeat 2 Acute aquatic 1 Chron aquatic 1	Health haz Toxic Environ haz	Danger	H350 H300 H331 H373 H400 H410	P201; P202; P260; P264; P270; P271; P273; P391; P281; P284; P311; P301+P310; P330; P314; P304+P340; P311; P321; P308+P313; P403+P233; P405; P510	
048-007-00-8	Cadmium iodide	7790-80-6	2570	Carcinogen 1B Acute tox 3 (oral) Acute tox 3 (inhalation) STOT repeat 2 Acute aquatic 1 Chron aquatic 1	Health haz Toxic Environ haz	Danger	H350 H301 H331 H373 H400 H410	P201; P202; P260; P264; P270; P271; P281; P301+P310; P330; P314; P304+P340; P311; P321; P308+P313; P273; P391; P403+P233; P405; P501	
048-003-00-6	Cadmiumformate, see Cadmium diformate	4464-23-7	2507						
—	Cadusafos (ISO common name)	95465-99-9	3018	Acute tox 2 (oral) Acute tox 1 (dermal) Acute tox 2 (inhalation) Acute aquatic 1 Chron aquatic 1	Toxic Environ haz	Danger	H300 H310 H330 H400 H410	P102; P260; P264; P270; P271; P280; P284; P301+P310; P330; P320; P302+P350; P310; P361; P363; P321; P304+P340; P310; P320; P273; P391; P403+P233; P405; P501	Cadusafos is an organo phosphorus pesticide. For transport, different UN numbers are assigned to a pesticide depending its physical form and flammability. See annex B.2 of SANS 10228.

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
020-001-00-X	Calcium	7440-70-2	1401	Water-react 2	Flame	Danger	H261	P233; P231+P323; P280; P335+P334; P370+P378; P402+P404; P501	
006-004-00-9	Calcium carbide	75-20-7	1402	Water-react 1	Flame	Danger	H260	P223; P231+P232; P280; P335+P334; P370+P378; P402+P404; P501	
001-004-00-5	Calcium hydride	7789-78-8	1404	Water-react 1	Flame	Danger	H260	P223; P231+P232; P280; P335+P334; P370+P378; P402+P404; P501	
017-012-00-7	Calcium hypochlorite, dry with > 39 % available chlorine (8,8 % available oxygen)	7778-54-3	1748	Oxidize solid 2 Acute tox 4 (oral) Skin corr 1B Acute aquatic 1	Flame over circle Corrosion Environ haz	Danger	H272 H302 H314 H400	P201; P210; P220; P221; P260; P262; P264; P270; P280; P273; P391; P301+P330+P331; P303+P361+P353; P363; P304+P340; P312; P321; P305+P351+P338; P370+P378; P405; P501	

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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
017-012-00-7	Calcium hypochlorite, hydrated, with not less than 5,5 % but more than 16 % water	7778-54-3	2880	Oxidize solid 2 Acute tox 4 (oral) Skin corr 1B Acute aquatic 1	Flame over circle Corrosion Environ haz		H272 H302 H314 H400	P201; P210; P220; P221; P260; P262; P264; P270; P280; P321; P301+P330+P310; P303+P361+P353; P363; P304+P340; P305+P351+P338; P370+P378; P273; P391; P405; P501	
015-003-00-2	Calcium phosphide	1305-99-3	1360	Water-react 1 Acute tox 2 (oral) Acute aquatic 1	Flame Toxic Environ haz	Danger	H260 H300 H400	P223; P264; P270; P280; P321; P231+P232; P301+P310+P331; P335+P334; P370+P378; P402+P404; P501	
006-003-00-3	Carbon disulphide	75-15-0	1131	Flam liquid 2 Reprod tox 2 STOT repeat 1 Eye irritant 2A	Flame Health haz	Danger	H225 H361 H372 H319	P201; P202; P210; P233; P240; P241; P242; P243; P260; P264; P270; P281; P321; P308+P313; P305+P351+P338; P337+P313; P303+P361+P353; P332+P313; P363; P370+P378; P403+P235; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
006-001-00-2	Carbon monoxide	630-08-0	1016	Flam gas 1 Reprod tox 1A Acute tox 3 (inhalation) STOT repeat 1	Flame Toxic Health haz	Danger	H220 H360 H331 H372	P202; P210; P260; P264; P270; P271; P281; P284; P320; P377; P381; P308+P313; P304+P340; P308+P313; P403+P233; P405; P501	
603-037-00-6	Cellulose nitrate, see Nitrocellulose	—							
606-035-00-3	Chloridazon (ISO common name)	1698-60-8	3077	Chron aquatic 2	Environ haz	Warning	H411	P273; P391; P501	Chloridazon is a pyridazinone used as a herbicide (solid)
017-001-00-7	Chlorine	7782-50-5	1017	Oxid gas 1 Acute tox 2 (inhalation) Eye damage 1 Skin irritant 2	Flame over circle Corrosion Toxic	Danger	H270 H330 H318 H315	P220; P244; P260; P264; P271; P280; P284; P321; P302+P352; P362; P304+P340; P332+P313; P305+P351+P338; P310; P320; P370+P376; 403+P233; P405; P501	



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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
006-089-00-2	Chlorine dioxide	10049-04-4	3311	Oxidize gas 1 Acute tox 2 (inhalation) Skin corr 1B Acute aquatic 1	Flammable over circle Toxic Environ haz	Danger	H270 H330 H314 H400	P220; P244; P260; P262; P264; P271; P280; P284; P304+P340; P320; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P370+P376; P273; P391; P403+P233; P405; P501	
602-036-00-8	2-Chloro-1,3-butadiene, see Chloroprene, stabilized	126-99-8							
603-166-00-8	(R)-1-Chloro-2,3-epoxypropane	106-89-8	2023	Flam liq 3 Carcinogen 1B Skin corr 1B Skin sens 1	Flame Health haz	Warning	H226 H350 H314 H317	P201; P202; P210; P233; P240; P241; P242; P243; P260; P262; P264; P272; P281; P308+P313; P304+P340; P310; P321; P370+P378; P301+P330+P331; P303+P361+P353; P363; P333+P313; P305+P351+P338; P370+P378; P403+P235; P405; P501	
603-026-00-6	1-Chloro-2,3-epoxypropane, see Epichlorohydrin	106-89-8							

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
602-032-00-6	3-Chloro-2-methylpropene	563-47-3	2554	Flam liquid 2 Carcinogen 2 Mutagen 2 Skin irritant 2 Chron aquatic 2	Flame Health haz Environ haz	Danger	H225 H351 H341 H315 H411	P201; P202; P210; P233; ;P240; P241; P242; P243; P264; P280; P281; P362; P308+P313; P303+P361+P353; P332+P313; P370+P378; P273; P391; P403+P235; P405; P501	
607-080-00-1	Chloroacetyl chloride	79-04-9	1752	Acute tox 3 (inhalation) Acute tox 3 (oral) STOT repeat 1 Skin corr 1A Acute aquatic 1	Corrosion Toxic Health haz Environ haz	Danger	H331 H311 H301 H372 H314 H400	P260; P262; P264; P270; P271; P260; P264; P314; P280; P284; P304+P340; P312; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P273; P391; P403+P233; P405; P501	
602-033-00-1	Chlorobenzene	108-90-7	1134	Flam liquid 3 Acute tox 4 (inhalation) Chron aquat 2	Flame Environ haz	Warning	H226 H332 H411	P261; P271; P312; P210; P233; P240; P241; P242; P243; P280; P304+P340; P312; P321; P303+P361+P353; P370+P378; P403+P235; P501	

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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
602-036-00-8	2-Chlorobuta-1,3-diene, see Chloroprene	126-99-8							
602-059-00-3	Chlorobutane	109-69-3	1127	Flam liquid 2	Flame	Danger	H225	P210; P233; P240; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	
–	Chlorodifluoromethane (Refrigerant gas R22)	75-45-6	1018	Reprod tox 2	Health haz	Warning	H361	P201; P202; P281; P308+P313; P405; P501	
603-075-00-3	Chlorodimethyl ether, see Methyl chloromethyl ether	107-30-2	1239						
602-009-00-0	Chloroethane	75-00-3	1037	Flam gas 1 Carcinogen 2 Chron aquatic 3	Flame Health haz	Danger	H220 H351 H412	P201; P202; P281; P308+P313; P210; P377; P381; P403; P405; P501	
602-023-00-7	Chloroethylene, see Vinyl chloride	75-01-4							
602-006-00-4	Chloroform	67-66-3	1888	Carcinogen 2 Acute tox 3 (inhalation) STOT repeat 2 STOT single 3 (narcotic) Eye irritant 2A	Toxic Health haz	Danger	H351 H331 H373 H336 H319	P201; P202; P260; P264; P270; P271; P281; P330; P301+P312; P330; P312; P302+P352; P332+P313; P362; P304+P340; P311; P321; P308+P313; P305+P351+P338; P337+P313; P403+P233; P405; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-142-00-8	Chloroformic acid propylester, see Propyl chloroformate	109-61-5							
602-001-00-7	Chloromethane (Refrigerant gas R14)	74-87-3	1063	Flam gas 1 Carcinogen 2 STOT repeat 2	Flame Health haz	Danger	H220 H351 H373	P201; P202; P210; P260; P281; P314; P377; P381; P308+P313; P405; P403; P501	
602-022-00-1	2-Chloropentane	625-29-6	1265	Flam liquid 2	Flame	Danger	H225	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	
602-022-00-1	1-Chloropentane, see Amyl chloride	543-59-9							
602-036-00-8	Chloroprene, stabilized	126-99-8	1991	Flam liquid 2 Carcinogen 1B Eye irritant 2A STOT single 3 (respiratory) Skin irritant 2	Flame Health haz	Danger	H225 H350 H319 H335 H315	P201; P202; P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P281; P321; P308+P313; P304+P340; P305+P351+P338; P337+P313; P301+P330+P331; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
602-018-00-X	1-Chloropropane	540-54-5	1278	Flam liquid 2 Acute tox 4 (inhalation) Acute tox 4 (dermal) Acute tox 4 (oral)	Flame Exclamation mark	Danger	H225 H332 H312 H302	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P304+P340; P312; P321; P301+P330+P331; P303+P361+P353; P370+P378; P403+P235; P501	
602-018-00-X	2-Chloropropane	75-29-6	2356	Flam liquid 2	Flame	Danger	H225	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	
602-029-00-X	3-Chloropropene, see Allyl chloride	107-05-1							
016-017-00-1	Chlorosulphonic acid	7790-94-5	1754	Skin corr 1A STOT single 3 (respiratory)	Corrosion	Danger	H314 H335	P260; P262; P264; P271; P280; P363; P304+P340; P312; P321; P301+P330+P331; P303+P361+P353; P305+P351+P338; P403+P233; P405; P501	
024-010-00-X	Chromic chromate, see Chromium (III) chromate	24613-89-6							

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
024-005-00-2	Chromic oxychloride, see Chromyl dichloride	14977-61-8							
024-010-00-X	Chromium (III) chromate	24613-89-6	3084	Oxidize solid 2 Carcinogen 1B Skin corr 1A Skin sens 1 Acute aquatic 1 Chron aquatic 1	Flame over circle Corrosion Health haz	Danger	H272 H350 H314 H317 H400 H410	P201; P202; P210; P220; P260; P262; P264; P272; P281;P321; P301+P330; P308+P313; P370+P378; P303+P361+P353; P333+P313; P363; P304+P340; P305+P351+P338; P405; P501	

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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
024-001-00-0	Chromium (VI) oxide	1333-82-0	1463	Oxidize solid 1 Carcinogen 1A Mutagen 1B Reprod tox 2 Acute tox 2 (inhalation) Acute tox 3 (dermal) Acute tox 3 (oral) STOT repeat 1 Skin corr 1A Acute aquatic 1 Chron aquatic 1	Flame over circle Corrosion Health haz Environ haz	Danger	H271 H350 H340 H361 H330 H311 H301 H372 H317 H400 H410	P201; P202; P210; P220; P221; P260; P264; P270; P271; P283; P285; P320; P304+P341; P342+P311; P301+P330+P331; P314; P371+P380+P375; P370+P378; P303+P361+P353; P306+P360; P332+P313; P363; P305+P351+P338; P273; P391; P403+P233; P405; P501	
024-005-00-2	Chromyl dichloride	14977-61-8	1758	Oxidize solid 2 Carcinogen 1B Mutagen 1B Skin corr 1A Acute aquatic 1 Chron aquatic 1	Flame over circle Corrosion Health haz Environ haz	Danger	H272 H350 H340 H314 H400 H410	P201; P202; P210; P220; P260; P264; P272; P280; P281; P308+P313; P301+P330+P331; P304+P340; P310; P321; P303+P361+P353; P333+P313; P363; P305+P351+P338; P370+P378; P405; P501	

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
029-003-00-5	Copper naphthenate	1338-02-9	1993	Flam liquid 3 Acute tox 4 (oral) Acute aquatic 1 Chron aquatic 1	Flame Environ haz	Warning	H226 H302 H400 H410	P210; P233; P240; P241; P242; P243; P264; P270; P280; P321; P301+P330+P310; P303+P361+P353; P370+P378; P273; P391; P403+P235; P501	
607-059-00-7	Coumatetralyl (ISO common name)	5836-29-3	3027	Acute tox 2 (oral) STOT repeat 1	Health haz Toxic	Danger	H300 H372	P102; P260; P264; P270; P314; P321; P330; P301+P310; P405; P501	Coumatetralyl is a coumarin anticoagulant analogue used as a rodenticide (crystals). For transport, different UN numbers are assigned to a pesticide depending its physical form and flammability. See annex B.2 of SANS 10228.
603-056-00-X	p-Cresyl glycidyl ether, see Glycidyl p-tolyl ether	2186-24-5							
603-056-00-X	Cresyl glycidyl ether, see Tolyl glycidyl ether	26447-14-3							



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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
605-009-00-9	Crotonaldehyde	4170-30-3	1143	Flam liquid 2 Mutagen 2 Acute tox 2 (inhalation) Acute tox 3 (oral) Skin irritant 2 Eye damage 1 Acute aquatic 1	Corrosion Flame Toxic Environ haz	Danger	H225 H341 H330 H301 H315 H318 H400	P201; P202; P210; P233; P240; P241; P242; P243; P260; P271; P281; P284; P312; P320; P304+P340; P308+P313; P303+P361+P353; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
601-024-00-X	Cumene	98-82-8	2364	Flam liquid 3 Aspirate haz 1 STOT single 3 (respiratory) Chron aquatic 2	Health haz Flame	Danger	H226 H304 H335 H411	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P301+P310; P331; P312; P303+P361+P353; P370+P378; :273; P391; P403+P233; P403+P235; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
617-002-00-8	Cumyl hydroperoxide, concentration > 90 % ≤ 98 %, by mass	80-15-9	3107	Org perox E Acute tox 3 (inhalation) Skin corr 1B Chron aquatic 2	Corrosion Flame Toxic Environ haz	Danger	H242 H331 H314 H411	P210; P220; P234; P261; P264; P270; P271; P280; P304+P340; P312; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P403+P233; P410; P411+P235; P501	
617-002-00-8	Cumyl hydroperoxide, concentration ≤ 90 %, by mass	80-15-9	3109	Org perox F Acute tox 4 (inhalation) Skin corr 1B Chron aquatic 3	Flame Corrosion	Danger	H242 H332 H314 H412	P210; P220; P234; P260; P264; P280; P271; P304+P340; P312; P301+P330+P331; P303+P361+P353; P363; P273; P391; P305+P351+P338; P410; P411+P235; P501	
608-011-00-8	Cyanogen	460-19-5	1026	Flam gas 1 Acute tox 3 (inhal) Acute aquatic 1 Chron aquatic 1	Flame Toxic Environ haz	Danger	H220 H331 H400 H410	P210; P261; P271; P273; P312; P321; P377; P381; P391; P304+P340; P273; P391; P403+P233; P405; P501	
608-001-00-3	Cyanomethane, see Acetonitrile	75-05-8	1648						

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
613-176-00-4	Cycloheptatriene	4254-95-2	2603	Flam liquid 3 Acute tox 3 (oral) STOT repeat 2 Skin corr 1B	Corrosion Flame Toxic Health haz	Danger	H226 H302 H373 H314	P210; P233; P240; P241; P242; P243; P260; P262 P264; P270; P280; P314; P321; P301+P330+P331; P303+P361+P353; P363; P370+P378; P403+P235; P405; P501	
601-017-00-1	Cyclohexane	110-82-7	1145	Flam liquid 2 Aspirate tox 1 Skin irrit 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P301+P310; P331; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
606-010-00-7	Cyclohexanone	108-94-1	1915	Flam liquid 3 Acute tox 4 (oral)	Flame Exclamation mark	Warning	H226 H302	P210; P233; P240; P241; P242; P243; P264; P270; P280; P301+P312; P330; P303+P361+P353; P370+P378; P403+P235; P501	
617-010-00-1	Cyclohexanone peroxide, concentration ≤ 32 % with ≥ 68 % water	12262-58-7	—	Org perox G Skin irritant 3	No symbol	Warning	H316	P332+P313	Not dangerous for transport.

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
617-010-00-1	Cyclohexanone peroxide, concentration ≤ 72 % as a paste	12262-58-7	3106	Org perox D Skin irritant 2	Flame Exclamation mark	Danger	H242 H315	P210; P220; P234; P264; P280; P321; P362; P302+P352; P332+P313; P370+P378; P370+P380+P375; P403+P235; P411; P420	
617-010-00-1	Cyclohexanone peroxide, concentration ≤ 91% with ≥ 9 % water (solution)	12262-58-7	3104	Org perox C Acute tox 4 (oral) Skin corr 1B	Flame Corrosion	Danger	H242 H302 H314	P210; P220; P234; P262; P264; P270; P280; P321; P301+P330+P331; P370+P378; P370+P380+P375; P403+P235; P411; P420	
617-010-00-1	Cyclohexanone peroxide, concentration ≤ 72 % with ≥ 28 % diluent Type A and ≥ 9 % water	12262-58-7	3105	Org perox D Skin irritant 2	Flame Exclamation mark	Danger	H242 H315	P210; P220; P234; P264; P280; P321; P302+P352; P362; P332+P313; P370+P378; P370+P380+P375; P403+P235; P411; P420	See 3.1 of SANS10234 for the definition of diluent Type A.

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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-050-00-6	Cyclohexylamine	108-91-8	2357	Flam liquid 3 Acute tox 3 (oral) Skin corr 1B	Corrosion Flame Toxic	Danger	H226 H301 H314	P210; P233; P242; P243; P260; P262; P264; P270; P280; P321; P304+P340; P301+P330+P331; P330; P363; P303+P261+P353; P305+P351+P338; P370+P378; P403+P235; P405; P501	
613-136-00-6	Cyclohexylbenzothiazol-2-sulphene- amide	95-33-0	—	Skin sens 1 Acute aquatic 1 Chron aquatic 1	Exclamation mark Environ haz	Warning	H317 H400 H410	P261; P272; P280; P302+P352; P333+P313; P321; P363; P273; P391; P501	Not hazardous for transport.
617-010-00-1	Cyclohexylidene hydroperoxide, see Cyclohexanone peroxide	2699-11-8							
601-030-00-2	Cyclopentane	287-92-3	1146	Flam liquid 2 Chron aquat 3	Flame	Danger	H225 H412	P210; P233; P240; P241; P242; P242; P243; P280; P303+P361+P353; P370+P378; P273; P391; P403+P235; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
606-025-00-9	Cyclopentanone	120-92-3	2245	Flam liquid 3 Eye irritant 2A Skin irritant 2	Flame Exclamation mark	Warning	H226 H319 H315	P210; P233; P240; P241; P242; P243; P264; P280; P321; P305+P351+P338; P337+P313; P303+P361+P353; P332+P313; P363; P370+P378; P403+P235; P501	
607-332-00-0	Cyclopentyl chloroformate	50715-28-1	2742	Flam liquid 3 Acute tox 3 (inhalation) STOT repeat 2 Eye damage 1 Skin sens 1	Corrosion Flame Toxic Health haz	Danger	H226 H331 H302 H373 H318 H317	P210; P233; P240; P241; P242; P243; P260; P264; P270; P271; P272; P280; P314; P304+P340; P311; P321; P301+P310; P330; P303+P361+P353; P333+P313; P321; P363; P305+P351+P338; P310; P370+P378; P403+P233; P403+P235; P405; P501	
601-016-00-6	Cyclopropane	75-19-4	1027	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	

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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
–	Detergent containing ≥ 2 %, by mass, lithium hydroxide (LiOH), or potassium hydroxide (KOH), or sodium hydroxide (NaOH)	–	1759 1760	Skin corr 1B	Corrosion	Danger	H314	P201; P260; P264; P280; P301+P330+P331; P303+P361+P353; P363; P304+P360; P310; P321; P305+P351+P338; P405; P501	
612-103-00-3	1,2-Di (dimethylamino)ethane, see Tetramethyl ethylene diamine	110-18-9	2372						
612-103-00-3	1,2-Di-(methylamino)ethane	110-18-9	2372	Flam liquid 2 Skin corr 1B	Corrosion Flame	Danger	H226 H314	P210; P233; P240; P241; P242; P243; P260; P262; P264; P280; P370+P378; P301+P330+P331; P303+P361+P363; P363; P304+P340; P310; P321; P305+P351+P338; P403+P235; P405; P501	
–	Diactoxydibutyl stannane, see Dibutyltin di(acetate)	t							
612-006-00-6	1,2-Diaminoethane, see Ethylene-diamine	107-15-3							
016-060-00-6	Diammonium peroxodisulfate, see Ammonium persulfate	7727-54-0							

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
617-008-00-0	Dibenzoyl peroxide, with more than > 51 % and up to 100 % dibenzoyl peroxide and with ≤ 48 % inert solid	94-36-0	3102	Org peroxide B Eye irritant 2A Skin sens 1	Flame Exploding bomb	Danger	H241 H319 H317	P210; P220; P234; P261; P264; P272; P280; P305+P351+P338; P337+P313; P310; P302+P352; P333+P313; P321; P363; P370+P378; P370+P380+P375; P403+P235; P411+P235; P410; P420; P501	
617-008-00-0	Dibenzoyl peroxide, concentration > 77 % – 94 % with ≥ 6 % water	94-36-0	3102	Org peroxide B Eye irritant 2A Skin sens 1	Flame Exploding bomb	Danger	H241 H319 H317	P210; P220; P234; P261; P264; P272; P280; P305+P351+P338; P337+P313; P310; P302+P352; P333+P313; P321; P363; P370+P378; P370+P380+P375; P403+P235; P411+P235; P410; P420; P501	



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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
617-008-00-0	Dibenzoyl peroxide, concentration $\leq 62$ % with $\geq 28$ % inert solid and $\geq 10$ % water	94-36-0	3106	Org peroxide D Eye irritant 2A Skin sens 1	Flame Exclamation mark	Danger	H242 H319 H317	P210; P220; P234; P261; P264; P272; P280; P302+P352; P333+P313; P321; P363; P370+P378; P337+P313; P305+P351+P338; P370+P380+P375; P403+P235; P411+P235; P410; P420; P501	
617-008-00-0	Dibenzoyl peroxide, concentration $\leq 77$ % with $\geq 23$ % water	94-36-0	3104	Org peroxide C Eye irritant 2 Skin sens 1	Flame Exclamation mark	Danger	H242 H319 H317	P210; P220; P234; P261; P264; P272; P280; P302+P352; P333+P313; P321; P363; P370+P378; P305+P351+P338; P337+P313; P370+P380+P375; P403+P235; P411+P235; P410; P420; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
609-056-00-6	2,2-Dibromo-2-nitroethanol	69094-18-4	—	Explosive 1.1 Acute tox 3 (oral) Carcinogen 2 Skin corr 1 Skin sens 1 Acute aquatic 1 Chron aquatic 1	Exploding bomb Corrosion Toxic	Danger	H201 H301 H351 H314 H317 H400 H410	P201; P202; P230; P240; P250; P260; P264; P270; P272; P281; P370+P380; P372; P373; P301+P330; P321; P330; P308+P313; P303+P361+P353; P333+P313; P311; P363; P304+P340; P310; P31; P305+P351+P338; P273; P391; P310; P401; P405; P501	Contact the Chief Inspector of Explosives of the SA Police Service for allocation of the UN number.
603-054-00-9	n-Dibutyl ether	142-96-1	1149	Flam liquid 3 STOT single 3 (respiratory) Skin irritant 2 Eye irritant 2A Chron aquatic 3	Flame Exclamation mark	Warning	H226 H335 H315 H319 H412	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P305+P351+P338; P337+P313; P370+P378; P273; P391; P403+P233; P403+P235; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-049-00-0	n-Dibutylamine	111-92-2	2248	Flam liquid 3 Acute tox 3 (dermal) Acute tox 3 (oral)	Flame Toxic	Danger	H226 H311 H301	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P330; P301+P310; P321; P330; P302+P352; P304+P340; P303+P361+P353; P312; P321; P363; P370+P378; P403+P235; P405; P501	
—	Dibutylbis(lauroyloxy)stannate, see Dibutyltin dilaurate	77-58-7	3077						
—	Dibutyltin diacetate	1067-33-0	3282	Acute tox 2 (oral) Reprod tox 1B STOT repeat 1 Acute aquatic 1 Chron aquatic 1	Health haz Toxic Environ haz	Danger	H300 H360 H372 H400 H410	P201; P202; P260; P264; P270; P281; P314; P301+P310; P321; P330; P308+P313; P273; P391; P405; P501	Dibutyltin diacetate is an organometallic compound in liquid form.
—	Dibutyltin dilaurate	77-58-7	3077	Reprod tox 1B Mutagen 2 Skin irritant 2 Eye irritant 2A Acute aquatic 1 Chron aquatic 1	Health haz Exclamation mark Environ haz	Danger	H360 H341 H315 H319 H400 H410	P201; P202; P264; P281; P302+P352; P332+P313; P321; P362; P308+P313; P305+P351+P338; P337+P313; P273; P391; P405; P501	

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
–	Dibutyltin maleate	78-04-6	3077	Reprod tox 1B Mutagen 2 Eye irritant 2A STOT repeat 1 Acute aquatic 1 Chron aquatic 1	Health haz Exclamation mark Environ haz	Danger	H360 H341 H319 H372 H400 H410	P201; P202; P260; P264; P270; P281; P314; P308+P313; P305+P351+P338; P337+P313; P273; P391; P405; P501	
–	Dibutyltin oxide	818-08-6	3077	Reprod tox 1B Mutagen 2 Eye damage 1 STOT repeat 1 Acute aquatic 1 Chron aquatic 1	Corrosion Health haz Environ haz	Danger	H360 H341 H318 H372 H400 H410	P201; P202; P260; P264; P270; P281; P310; P314; P308+P313; P305+P351+P338; P273; P391; P405; P501	
–	Dibutyltin salts with the exception of those specified in this list	–	3077	Reprod tox 1B Mutagen 2 STOT repeat 1 Acute aquatic 1 Chron aquatic 1	Health haz Environ haz	Danger	H360 H341 H372 H400 H410	P201; P202; P260; P264; P270; P281; P314; P308+P313; P273; P391; P405; P501	
603-046-00-5	Dichloro dimethyl ether, see Bis (chloro-methyl) ether	542-88-1							
613-029-00-4	Dichloro-1,3,5-triazinetriene, see Dichloroisocyanuric acid	2782-57-2							
602-069-00-8	Dichloroacetylene	7572-29-4	–	Unstable expl Carcinogen 2 STOT repeat 2	Exploding bomb Health haz	Danger	H200 H351 H373	P201; P202; P260; P281; P372; P373; P380; P308+P313; P401; P405; P501	Unstable explosives are too dangerous to be transported. Therefore, no UN number has been assigned.

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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
602-011-00-1	1,1-Dichloroethane	75-34-3	2362	Flam liquid 2 Eye irritant 2 STOT single 3 (respiratory) Chron aquatic 3	Flame Exclamation mark	Danger	H225 H319 H335 H412	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P273; P391; P403+P233; P403+P235; P501	
602-012-00-7	1,2-Dichloroethane, see Ethylene dichloride	107-06-2							
603-029-00-2	Dichloroethyl ether	111-44-4	1916	Carcinogen 2 Acute tox 2 (inhalation) Acute tox 1 (dermal) Acute tox 2 (oral)	Toxic Health haz	Danger	H351 H330 H310 H300	P201; P202; P260; P262; P264; P270; P271; P281; P284; P321; P308+P313; P304+P340; P310; P320; P302+P350; P310; P320; P361; P363; P301+P310; P321; P330; P403+P233; P405; P501	Dichloroethyl ether has a closed-cup flashpoint of 75°C.
603-029-00-2	Dichloroethyl oxide, see Dichloroethyl Ether	111-44-4							

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
602-025-00-8	1,1-Dichloroethylene	75-35-4	1303	Flam liquid 1 Carcinogen 2	Flame Health haz	Danger	H224 H351	P201; P202; P210; P233; P240; P241; P242; P243; P281; P303+P361+P353; P308+P313; P312 P370+P378; P403+P235; P405; P501	
602-026-00-3	1,2-Dichloroethylene	540-59-0	1150	Flam liquid 2 Acute tox 4 (inhalation) Chron aquatic 3	Flame Exclamation mark	Danger	H225 H332 H412	P210; P233; P242; P243; P261; P264; P271; P273; P280; P304+P340; P312; P303+P361+P353; P370+P378; P273; P391; P403+P235; P501	The isomers, cis-dichloroethylene and trans-1,2-dichloroethylene have the same classification.
613-029-00-4	Dichloroisocyanuric acid	2782-57-2	2465	Oxid solid 2 Acute tox 4 (oral) Eye irritant 2A STOT single 3 (respiratory) Acute aquatic 1 Chron aquatic 1	Flame over circle Environ haz	Danger	H271 H302 H319 H335 H400 H410	P210; P220; P221; P261; P264; P270; P271; P280; P283; P370+P378; P304+P340; P312; P321; P301+P330+P331; P305+P351+P338; P337+P313; P371+P380+P375; P370+P373; P273; P391; P403+P233; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
602-020-00-0	1,2-Dichloropropane	78-87-5	1279	Flam liquid 2 Acute tox 4 (oral) Acute tox 4 (inhalation)	Flame Exclamation mark	Danger	H225 H302 H332	P210; P233; P24; P241; P242; P243; P261; P264; P270; P271; P280; P301+P310; P330; P303+P361+P353; P304+P340; P312; P370+P378; P403+P235; P501	
602-030-00-5	(Z)-1,3-Dichloropropene	10061-01-5	2047	Flam liquid 3 Skin irritant 2 Eye irritant 2A Skin sens 1 Acute aquatic 1 Chron aquatic 1	Flame Exclamation mark Environ haz	Warning	H226 H315 H319 H317 H400 H410	P210; P333; P243; P264; P280; P321; P303+P361+P353; P321; P333+P313; P362; P305+P351+P338; P337+P313; P370+P378; P273; P391; P403+P235; P501	
602-031-00-0	1,1-Dichloropropene	563-58-6	2047	Flam liquid 2 Acute tox 3 (oral) Chron aquatic 3	Flame Toxic	Danger	H225 H301 H412	P210; P233; P240; P241; P242; P243; P264; P270; P280; P301+P310; P321; P330; P303+P361+P353; P370+P378; P273; P391; P403+P235; P405; P501	

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
602-030-00-5	1,3-Dichloropropene	542-75-6	2047	Flam liquid 3 Acute tox 3 (oral) Eye irritant 2A Skin sens 1 Acute aquatic 1 Chron aquatic 1	Flame Toxic Environ haz	Warning	H226 H301 H319 H317 H400 H410	P210; P233; P240; P241; P242; P243; P264; P270; P273; P280; P321; P391; P301+P310; P321; P330; P303+P361+P353; P333+P313; P321; P363; P305+P351+P338; P337+P313; P370+P378; P273; P391; P403+P235; P405; P501	
602-079-00-2	2,3-Dichloropropene	78-88-6	2047	Flam liquid 2 Mutagen 2 Skin irritant 2 Eye damage 1 Chron aquatic 3	Corrosion Flame Health haz	Danger	H225 H341 H315 H318 H412	P201; P202; P210; P233; P240; P241; P242; P243; P261; P262; P264; P270; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P362; P305+P351+P338; P310; P370+P378; P273; P391; P403+P233; P405; P501	
602-079-00-2	2,3-Dichloropropylene, see 2,3-Dichloropropene	78-88-6							



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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
024-010-00-X	Dichromium tris(chromate), see Chromium (III) chromate	24613-89-6							
601-044-00-9	Dicyclopentadiene	77-73-6	2048	Flam liquid 2 Acute tox 3 (inhalation) Skin irritant 2 Eye irritant 2A Chron aquatic 2	Flame Toxic Environ haz	Danger	H225 H331 H315 H319 H411	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P304+P340; P311; P321; P305+P351+P338; P337+P313; P301+P312; P330; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P405; P501	
605-015-00-1	1,1-Diethoxyethane, see Acetal	105-57-7							
603-160-00-5	1,2-Diethoxypropane	10221-57-5	3271	Flam liquid 2	Flame	Danger	H225	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	
603-161-00-0	1,3-Diethoxypropane	3459-83-4	3271	Flam liquid 3	Flame	Warning	H226	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	

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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-022-00-4	Diethyl ether	60-29-7	1155	Flam liquid 1 Acute tox 4 (oral) STOT single 3 (narcotic)	Flame Exclamation mark	Danger	H224 H302 H336	P102; P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P304+P340; P312; P321; P301+P330+P331; P303+P361+P353; P363; P370+P378; P403+P233; P403+P235; P405; P501	
606-006-00-5	Diethyl ketone	96-22-0	1156	Flam liquid 2 STOT single 3 (respiratory) STOT single 3 (narcotic)	Flame	Danger	H225 H335 H336	P210; P233; P240; P241; P242; P243; P261; P271; P280; P312; P304+P340; P312; P321; P303+P361+P353; P370+P378; P403+P233; P403+P235; P501	
013-005-00-8	Diethyl(ethyldimethylsilanato)aluminium	55426-95-4	3131	Water-react 1 Pyro liquid 1 Skin corr 1A	Flame Corrosion	Danger	H260 H250 H314	P210; P222; P223; P280; P302+P334; P231+P232; P335+P334; P370+P378; P402+P404; P422; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-003-00-X	Diethylamine	109-89-7	1154	Flam liquid 2 Acute tox 3 (dermal) Acute tox 4 (oral) Skin corr 1A	Flame Corrosion Toxic	Danger	H225 H311 H302 H314	P210; P233; P240; P241; P242; P243; P260; P264; P270; P280; P370+P378; P301+P330+P331; P303+P361+P353; P312; P322; P363; P304+P340; P312; P321; P305+P351+P338; P403+P235; P405; P501	
603-048-00-6	2-Diethylaminoethanol	100-37-8	2686	Flam liquid 3 Acute tox 4 (dermal) Acute tox 4 (oral) Skin corr 1B	Corrosion Flame	Danger	H226 H312 H302 H314	P210; P233; P240; P241; P242; P243; P260; P262; P264; P270; P280; P304+P340; P312; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P370+P378; P403+P235; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-139-00-0	Diethylene glycol dimethyl ether	111-96-6	3271	Flam liquid 3 Reprod 1B	Health haz Flame	Danger	H226 H360	P201; P202; P210; P233; P242; P243; P280; P281; P308+P313; P303+P361+P353; P370+P378; P403+P235; P405; P501	
603-033-00-4	Diethylene glycol dinitrate, see Digol dinitrate	693-21-0							
603-033-01-1	Diethylene glycol dinitrate, with not less than 25 % phlegmatizer, see Digol dinitrate with not less than 25 % phlegmatizer	693-21-0							A phlegmatizer renders an explosive insensitive, or less sensitive, to heat, shock, impact, percussion or friction.
603-048-00-6	N,N-Diethylethanolamine, see 2-Diethylaminoethanol	100-37-8							
030-004-00-8	Diethylzinc	557-20-0	1366	Pyr liquid 1 Skin corr 1B Acute aquatic 1 Chron aquatic 1	Flammable Corrosive Environ haz	Danger	H250 H314 H400 H410	P210; P222; P260; P262; P264; P280; P302+P334; P304+P340; P310; P321; P370+P378; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P273; P391; P405; P422; P501	

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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-157-00-X	Difenacoum (ISO common name)	56073-07-5	3024 3025 2026 3027	Acute tox 1 (oral) Acute tox 1 (dermal) STOT repeat 1	Toxic Health haz	Danger	H300 H310 H372	P102; P260; P262; P264; P270; P280; P310; P314; P322; P301+P310; P321; P330; P302+P350; P310; P322; P361; P363; P405; P501	Difenacoum is a coumarin anticoagulant and is used as a rodenticide. For transport, different UN numbers are assigned to a pesticide depending its physical form and flammability. See annex B.2 of SANS 10228.
—	Difethialone (ISO common name)	104653-34-1	3024 3025 2026 3027	Acute tox 1 (oral) Acute tox 1 (inhalation) STOT repeat 1 Acute aquatic 1 Chron aquatic 1	Toxic Health haz Environ haz	Danger	H300 H330 H372 H400 H410	P102; P260; P264; P270; P271; P273; P284; P310; P312; P320; P391; P301+P310; P321; P330; P304+P340; P310; P322; P361; P363; P273; P391; P405; P403+P233; P501	Difethialone is a coumarin anticoagulant analogue used as a rodenticide. For transport, different UN numbers are assigned to a pesticide depending its physical form and flammability. See annex B.2 of SANS 10228.
006-072-00-X	Diflubenzuron (ISO common name)	35367-38-5	3077	Acute aquatic 1 Chron aquatic 1	Environ haz	Warning	H400 H410	P102; P201; P273; P391; P501	Diflubenzuron is a benzoylurea (crystals).

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-033-00-4	Digol dinitrate	55-63-0	–	Unstable expl Acute tox 1 (dermal) Chron aquatic 3	Exploding bomb Toxic	Danger	H200 H310 H412	P201; P202; P230; P240; P250; P280; P262; P270; P372; P373; P380; P262; P264; P302+P350; P302+P350; P310; P322; P361; P363; P370+P380; P273; P391; P401; P405; P501	The pure product is an unstable explosive and is too dangerous to be transported. Therefore, No UN number has been assigned.
603-033-01-1	Digol dinitrate with not less than 25 % phlegmatizer (by mass)	78-11-5	–	Explosive 1.1 Acute tox 1 (dermal) Chron aquatic 3	Exploding bomb Toxic	Danger	H201 H310 H412	P201; P230; P240; P250; P280; P370+P380; P372; P373; P262; P270; P372; P373; P302+P350; P310; P322; P361; P363; P273; P391; P401; P301+P310; P401; P405; P501	Contact the Chief Inspector of Explosives of the SA Police Service for allocation of the UN number.  A phlegmatizer renders an explosive insensitive, or less sensitive, to heat, shock, impact, percussion or friction.
606-005-00-X	Diisobutyl ketone	108-83-8	1157	Flam liquid 3 STOT single 3 (respiratory)	Flame	Warning	H226 H335	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P233; P403+P235; P501	

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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
–	Diisobutyl phthalate, concentration ≥ 25 %, by mass	84-69-5	–	Reprod tox 1B	Health haz	Danger	H360	P201; P202; P281; P308+P313; P405; P501	Not dangerous for transport.
–	Diisobutyl phthalate, concentration ≥ 5 % but < 25 %, by mass	84-69-5	–	Reprod tox 2	Health haz	Warning	H361	P201; P202; P281; P308+P313; P405; P501	Not dangerous for transport.
603-045-00-X	Diisopropyl ether	108-20-3	1159	Flam liquid 2 STOT single 3 (narcotic)	Flame	Danger	H225 H336	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	
606-028-00-5	Diisopropyl ketone	565-80-0	1157	Flam liquid 2 Acute tox 4 (inhalation)	Flame Exclamation mark	Danger	H225 H332	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P235; P501	

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-129-00-5	Diisopropylamine	108-18-9	1158	Flam liquid 2 Acute tox 4 (inhalation) Acute tox 4 (oral) Eye irritant 2A	Flame Exclamation mark	Danger	H225 H332 H302 H319	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P301+P312; P330; P304+P340; P312; P302+P361+P353; P370+P378; P3051+P351+P338; P337+P313; P403+P235; P501	
606-017-00-5	Diketene	674-82-8	2521	Flam liquid 3 Acute tox 4 (inhalation)	Flame Exclamation mark	Warning	H226 H332	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P235; P501	
617-003-00-3	Dilauroyl peroxide, concentration > 42 % ≤ 100 %, by mass	105-74-8	3106	Org perox D	Flame	Danger	H242	P210; P220; P234; P280; P370+P378; P370+P380+P375; P403+P235; P411; P420	
617-003-00-3	Dilauroyl peroxide, concentration ≤ 42 %, by mass, as a stable aqueous dispersion	105-74-8	3109	Org perox D	Flame	Danger	H242	P210; P220; P234; P280; P370+P378; P370+P380+P375; P403+P235; P411; P420	



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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
605-007-00-8	1,1-Dimethoxyethane, see Dimethyl acetal	534-15-6							
603-031-00-3	1,2-Dimethoxyethane, see Ethylene glycol dimethyl ether	110-71-4							
603-100-00-8	1,2-Dimethoxypropane	7778-85-0	3271	Flam liquid 2	Flame	Danger	H225	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	
605-007-00-8	Dimethyl acetal	534-15-6	2377	Flam liquid 2	Flame	Danger	H225	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	
607-013-00-6	Dimethyl carbonate	616-38-6	1161	Flam liquid 2	Flame	Danger	H225	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	
603-019-00-8	Dimethyl ether	115-10-6	1033	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	
603-077-00-4	Dimethyl isopropanolamine, see 1-Dimethylamino-2-propanol	108-16-7							
612-061-00-6	N,N-Dimethyl-1,3-diaminepropane, see 3-Aminopropyldimethylamine	109-55-7							

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-077-00-4	1-Dimethylamino-2-propanol	108-16-7	2734	Flam liquid 3 Acute tox 4 (oral) Skin corr 1B	Corrosion Flame	Danger	H226 H302 H314	P210; P233; P240; P241; P242; P243; P260; P264; P270; P280; P301+P330+P331; P303+P361+P353; P363; P304+P340; P310; P321; P305+P351+P338; P370+P378; P403+P235; P405; P501	
603-047-00-0	2-Dimethylaminoethanol	108-01-0	2051	Flam liquid 3 Acute tox 4 (oral) Skin corr 1B	Corrosion Flame Exclamation mark	Danger	H226 H302 H314	P210; P233; P240; P241; P242; P243; P260; P262; P264; P270; P271; P280; P304+P340; P310; P321; P301+P330+331; P312; P322; P303+P361+P353; P363; P305+P351+P338; P370+P378; P403+P235; P405; P501	
612-075-00-2	2-Dimethylaminoethylamine, see 2-Aminoethyldimethylamine	108-00-9							

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
617-002-00-8	$\alpha$ , $\alpha$ -Dimethylbenzyl hydroperoxide, see Cumyl hydroperoxide	80-15-9							
601-019-00-2	1,4-Dimethylcyclohexane	589-90-2	2263	Flam liquid 2	Flame	Danger	H225	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	
014-003-00-X	Dimethyldichlorosilane	75-78-5	1162	Flam liquid 2 STOT single 3 (respiratory) Skin irritant 2 Eye irritant 2A	Flame Exclamation mark	Danger	H225 H335 H315 H319	P210; P233; P240; P241; P242; P243; P261; P264; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P321 P363; P370+P378; P305+P351+P338; P337+P313; P403+P233; P403+P235; P501	
603-047-00-0	N,N-Dimethylethanolamine, see 2-Dimethylaminoethanol	108-01-0							
612-076-00-8	N,N-Dimethylethylamine, see N-ethyl-dimethylamine	598-73-8							
606-005-00-X	2,6-Dimethylheptan-4-one, see Di-isobutyl ketone	108-83-8							

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-009-00-8	2,2-Dimethylhexane (octane isomer)	590-73-8	1262	Flam liquid 2 Aspirate haz 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
601-009-00-8	2,3-Dimethylhexane (octane isomer)	584-94-1	1262	Flam liquid 2 Aspirate haz 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	

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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-009-00-8	2,4-Dimethylhexane (octane isomer)	589-43-5	1262	Flam liquid 2 Aspirate tox 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
601-009-00-8	3,3-Dimethylhexane (octane isomer)	563-16-6	1262	Flam liquid 2 Aspirate tox 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-009-00-8	3,4-Dimethylhexane (octane isomer)	583-48-2	1262	Flam liquid 2 Aspirate tox 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
601-009-00-8	2,5-Dimethylhexane (octane isomer)	592-13-2	1262	Flam liquid 2 Aspirate tox 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	

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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
007-012-00-5	N,N-Dimethylhydrazine, symmetrical	57-14-7	2382	Flam liquid 2 Carcinogen 1B Acute tox 3 (oral) Acute tox 3 (inhalation) Skin corr 1B Chron aquatic 2	Corrosion Flame Toxic Health haz	Danger	H225 H350 H301 H331 H314 H411	P201; P202; P210; P233; P240; P241; P242; P243; P260; P262; P264; P270; P271; P280; P281; P284; P304+P340; P310; P320; P301+P330+P331; P321; P370+P378; P303+P361+P353; P363; P305+P351+P338; P273; P391; P403+P233; P403+P235; P405; P501	
007-012-00-5	N,N-Dimethylhydrazine, unsymmetrical	57-14-7	1163	Flam liquid 2 Carcinogen 1B Acute tox 3 (oral) Acute tox 3 (inhalation) Skin corr 1B Chron aquatic 2	Corrosion Flame Health haz	Danger	H225 H350 H301 H331 H314 H411	P201; P202; P210; P233; P240; P241; P242; P243; P260; P262; P264; P270; P271; P280; P281; P284; P304+P340; P310; P320; P301+P330+P331; P321; P370+P378; P303+P361+P353; P363; P305+P351+P338; P273; P391; P403+P233; P403+P235; P405; P501	

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-077-00-4	Dimethylisopropanolamine, see 1-Dimethylamino-2-propanol	108-16-7							
606-028-00-5	2,4-Dimethylpentan-3-one, see Diisopropyl ketone	565-80-0							
601-008-00-2	2,4-Dimethylpentane (heptane isomer)	590-35-2	1206	Flam liquid 2 Aspirate haz 1 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
601-008-00-2	2,3-Dimethylpentane (heptane isomer)	565-59-3	1206	Flam liquid 2 Aspirate haz 1 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	



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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-008-00-2	2,4-Dimethylpentane (heptane isomer)	108-08-7	1206	Flam liquid 2 Aspirate tox 1 STOT single 3 Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
601-008-00-2	3,3-Dimethylpentane (heptane isomer)	562-49-2	1206	Flam liquid 2 Aspirate tox 1 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
601-005-00-6	2,2-Dimethylpropane	463-82-1	2044	Flam gas 1 Chron aquatic 2	Flame Environ haz	Danger	H220 H411	P210; P377; P381; P273; P391; P403; P501	

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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
–	Dimethyltin dichloride	753-039-2	3288	Acute tox 3 (oral) Mutagen 2 Skin corr 1 Eye damage 1	Corrosion Toxic Health haz	Danger	H301 H341 H314 H318	P201; P202; P260; P262; P264; P270; P281; P304+P340; P310; P321; P308+P313; P301+P330+P331; P303+P361+P353; P332+P313; P363; P305+P351+P338; P310; P405; P501	
030-004-00-8	Dimethylzinc	544-97-8	1370	Pyro liquid 1 Skin corr 1B Acute aquatic 1 Chron aquatic 1	Flame Corrosion Environ haz	Danger	H250 H314 H400 H410	P210; P222; P260; P262; P264; P280; P302+P334; P370+P278; P301+P330+P331; P304+P340; P310; P321; P303+P361+P353; P332+P313; P363; P305+P351+P338; P310; P273; P391; P405; P422; P501	
603-054-00-9	Di-n-butyl ether, see n-Dibutyl ether	142-96-1							

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
013-008-00-4	Di-n-octylaluminium iodide	7585-14-0	2845	Pyro liquid 1 Skin corr 1B Acute aquatic 1 Chron aquatic 1	Flame Corrosion Environ haz	Danger	H250 H314 H400 H410	P210; P222; P260; P262; P264; P280; P302+P334; P370+P278; P301+P330+P331; P304+P340; P310; P321; P303+P361+P353; P332+P313; P363; P305+P351+P338; P310; P273; P391; P405; P422; P501	
609-025-00-7	Dinoseb (ISO common name)	88-85-7	2902 2588	Reprod 1B Acute tox 3 (dermal) Acute tox 3 (oral) Eye irritant 2A Acute aquatic 1 Chron aquatic1	Toxic Health haz Environ haz	Danger	H360 H311 H301 H319 H400 H410	P102; P202; P264; P270; P280; P308+P313; P305+P351+P338; P337+P313; P302+P352; P312; P322; P361; P363 P301+P310; P321; P330; P273; P391; P405; P501	Dinoseb is a dinitro-phenol used as an herbicide For transport, different UN numbers are assigned to a pesticide depending its physical form and flammability. See annex B.2 of SANS 10228.
609-026-00-2	Dinoseb, salts and esters, with the exception of those specified elsewhere in the list.		2902 2588	Reprod 1B Acute tox 3 (dermal) Acute tox 3 (oral) Eye irritant 2A Acute aquatic 1 Chron aquatic 1	Toxic Health haz Environ haz	Danger	H360 H311 H301 H319 H401 H410	P102; P202; P264; P270; P273; P280; P321; P363; P391 P308+P313; P337+P313; P302+P352; P301+P330+P331; P305+P351+P338; P405; P501	Dinoseb is a dinitro-phenol used as an herbicide. For transport, different UN numbers are assigned to a pesticide depending its physical form and flammability. See annex B.2 of SANS 10228

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
609-030-00-4	Dinoterb (ISO common name)	1420-07-1	2902 2588	Reprod 1B Acute tox 2 (oral) Acute tox 3 (dermal) Acute aquatic 1 Chron aquatic 1	Toxic Health haz Environ haz	Danger	H360 H300 H311 H400 H410	P102; P202; P264; P270; P273; P281; P391; P302+P352; P312; P322; P361; P363; P308+P313; P301+P310; P321; P330; P273; P391; P405; P501	Dinoterb is a dinitro-phenol used as a herbicide. Different UN numbers are assigned depending on the physical form and flammability of the dinoterb formulation. See annex B.2 of SANS 10228.
606-027-00-X	Di-n-propyl ketone	123-19-3	2710	Flam liquid 3 Acute tox 4 (inhalation)	Flame Exclamation mark	Warning	H226 H332	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P235; P501	
612-048-00-5	Di-n-propylamine concentration ≥ 5 % < 10 %, by mass	142-84-7	2383	Skin corr 1B	Corrosion	Danger	H314	P260; P264; P280; P301+P330+P331; P303+P361+P353; P363; P304+P340; P310; P321; P305+P351+P338; P405; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-048-00-5	Di-n-propylamine concentration ≥ 10 % < 25 %, by mass	142-84-7	2383	Skin corr 1A	Corrosion	Danger	H314	P260; P264; P280; P301+P330+P331; P303+P361+P353; P363; P304+P340; P310; P321; P305+P351+P338; P405; P501	
612-048-00-5	Di-n-propylamine concentration ≥ 1 % < 5 %, by mass	142-84-7	—	Skin irrit 2	Exclamation mark	Warning	H315	P264; P280; P302+P352; P321; P332+P313; P362	Not hazardous for transport.
612-048-00-5	Di-n-propylamine, concentration ≥ 25 %, by mass	142-84-7	2383	Flam liquid 2 Acute tox 4 (oral) Acute tox 4 (inhalation) Skin corr 1A	Corrosion Flame	Danger	H225 H302 H332 H314	P210; P233; P240; P241; P242; P243; P260; P264; P270; P271; P280; P363; P304+P340; P312; P301+P330+P331; P310; P321; ; P303+P361+P353; P363; P305+P351+P338; P370+P378; P403+P235; P405; P510	

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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-024-00-5	1,4-Dioxane	123-91-1	1165	Flam liquid 2 Carcinogen 2 Eye irritant 2A STOT single 3 (respiratory)	Flame Health haz	Danger	H225 H351 H319 H335	P201; P202; P210; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P308+P313; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P405; P501	
605-017-00-2	1,3-Dioxolane	646-06-0	1166	Flam liquid 2	Flame	Danger	H225	P210; P233; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	
617-010-00-1	1,1'-Dioxybiscyclohexan-1-ol, see Cyclohexanone peroxide	2407-94-5							
601-029-00-7	Dipentene	138-86-3	2052	Flam liquid 3 Skin irritant 2 Skin sens 1 Acute aquatic 1 Chron aquatic 1	Flame Environ haz	Warning	H226 H315 H317 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P272; P280; P321; P363; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P235; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
015-104-00-1	Diphosphorus pentasulfide, see Phosphorus pentasulfide	1314-80-3							
612-019-00-7	Dipicrylamine, ammonium salt	2844-92-0	0079	Explosive 1.1 Acute tox 1 (dermal) Chron aquatic 2			H201 H310 H411	P201; P230; P240; P250; P262; P264; P280; P370+P378 P372; P373; P302+P350; P311; P361; P363; P401; P405; P501	Permission of the Chief Inspector of Explosives of the SA Police Service is required to have an explosive in private possession
016-061-00-1	Dipotassium peroxodisulfate, see Potassium persulfate	7727-21-1							
603-045-00-X	Dipropyl ether	111-43-3	1159	Flam liquid 2 STOT single 3 (narcotic)	Flame Exclamation mark	Danger	H225 H336	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	
606-027-00-X	Dipropyl ketone	123-19-3	2710	Flam liquid 3 Acute tox 4 (inhalation)	Flame Exclamation mark	Warning	H226 H332	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P235; P501	
606-003-00-9	Dipropyl ketone, see Butyl ethyl ketone	106-35-4							
606-024-00-3	Dipropyl ketone, see Methyl amyl ketone	110-43-0							

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-049-00-0	Di-sec-butylamine	626-23-3	2734	Flam liquid 2 Acute tox 4 (oral) Skin corr 1A	Corrosion Flame	Danger	H225 H302 H314	P210; P233; P240; P241; P242; P243; P260; P262; P264; P270; P280; P301+P312; P330; P304+P340; P321; P305+P351+P338; P303+P361+P353; P363; P370+P378; P403+P235; P405; P501	
617-001-00-2	Di-tert-butyl peroxide, concentration > 52 %, by mass	110-05-4	3107	Org perox E Flam liquid 2	Flame		H242 H225	P210; P220; P233; P234; P240; P241; P242; P243; P280; P370+P378; P370+P380+P375; P303+P361+P353; P363; P370+P378; P410; P403+P235; P411+P235; P420; P501	



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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-247-00-9	Dodecyl methacrylate	142-90-5	–	Skin irritant 2 Eye irritant 2A STOT single 3 (respiratory)	Exclamation mark	Warning	H315 H319 H335	P261; P264; P271; P280; P312; P321; P302+P352; P321; P332+P313; P362; P304+P340;; P305+P351+P338; P337+P313; P403+P233; P405; P501	Not hazardous for transport
603-026-00-6	Epichlorohydrin	106-89-8	2023	Flam liquid 3 Carcinogen 1B Acute tox 3 (oral) Skin corr 1B Skin sens 1	Corrosion Flame Toxic	Danger	H226 H350 H301 H314 H317	P201; P202; P210; P233; P242; P243; P260; P262; P264; P270; P272; P281; P304+P340; P321; P308+P313; P301+P330+P331; P303+P361+P353; P333+P313; P363; P305+P351+P338; P370+P378; P403+P235; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-143-00-2	(R)-Epoxy-1-propanol	57044-25-4	2922	Carcinogen 1B Mutagen 2 Acute tox 3 (inhalation)) Skin corr 1B	Corrosion Toxic Health haz	Danger	H350 H341 H302 H314	P201; P202; P260; P264; P270; P271; P281; P284; P304+P340; P311; P321; P308+P313; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P403+P233; P405; P501	
603-102-00-9	1,2-Epoxybutane, see 1,2-Butylene oxide	106-88-7							
603-055-00-4	1,2-Epoxypropane, see Propylene oxide	75-56-9							
605-003-00-6	Ethanal, see Acetaldehyde	75-07-0							
601-002-00-X	Ethane	74-84-0	1035	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	
612-006-00-6	1,2-Ethanediamine, see Ethylene-diamine	107-15-3							
016-022-00-9	Ethanethiol, see Ethyl mercaptan	75-08-1							

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-002-00-5	Ethanol	64-17-5	1170	Flam liquid 2	Flame	Danger	H225	P102; P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	
015-145-00-4	Ethephon (ISO common name)	16672-87-0	2923	Acute tox 3 (dermal) Skin corr 1C Eye damage 1	Corrosion Toxic	Danger	H311 H314 H318	P102; P260; P262; P264; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P312; P322; P363; P305+P351+P338; P310; P405; P501	Ethephon is an ethylene generator used as a plant growth regulator (solid).
603-022-00-4	Ether, see Diethyl ether	60-29-7							
603-177-00-8	2-Ethoxy-1-methylethyl acetate	54839-24-6	3272	Flam liquid 3 STOT single 3 (narcotic)	Flame Exclamation mark	Warning	H226 H336	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
–	2-Ethoxy-2-methylpropane	637-92-3	1179	Flam liquid 2 STOT single 3 (narcotic)	Flame Exclamation mark	Danger	H225 H336	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	
–	tert-Butyl ethylether, see 2-Ethoxy-2-methylpropane	637-92-3							
603-177-00-8	1-Ethoxy-2-propanol	1569-02-4	3271	Flam liquid 3 STOT single 3 (narcotic)	Flame Exclamation mark	Warning	H226 H336	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	
603-012-00-X	2-Ethoxyethanol, see Ethylene glycol monoethyl ether	110-80-5							

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-022-00-5	Ethyl acetate	141-78-6	1173	Flam liquid 2 Eye irritant 2A STOT single 3 (narcotic)	Flame Exclamation mark	Danger	H225 H319 H336	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P305+P351+P338; P337+P313; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	
607-032-00-X	Ethyl acrylate	140-88-5	1917	Flam liquid 2 Skin irritant 2 Eye irritant 2A STOT single 3 (respiratory)	Flame Exclamation mark	Danger	H225 H315 H319 H335 H317	P210; P233; P240; P242; P243; P261; P264; P271; P272; P280; P304+P340; P312; P303+P361+P353; P333+P313; P363; P305+P351+P338; P337+P313; P370+P378; P403+P235; P405; P501	
603-002-00-5	Ethyl alcohol, see Ethanol	64-17-5							

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
606-020-00-1	Ethyl amyl ketone	541-85-5	2271	Flam liquid 3 Eye irritant 2A STOT single 3 (respiratory)	Flame Exclamation mark	Warning	H226 H319 H335	P210; P233; P240; P241; P242; P243; P264; P271; P280; P304+P340; P312; P305+P351+P338; P337+P313; P303+P361+P353; P370+P378; P403+P233; P403+P235; P501	
601-023-00-4	Ethyl benzene	100-41-4	1175	Flam liquid 2 Acute tox 4 (inhalation) Skin irritant 2 Eye irritant 2A	Flame Exclamation mark	Danger	H225 H332 H315 H319	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P553; P332+P313; P363; P305+P351+P338; P337+P313; P370+P378; P403+P235; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
602-055-00-1	Ethyl bromide	74-96-4	1891	Flam liquid 2 Carcinogen 2 Acute tox 4 (inhalation) Acute tox 4 (oral)	Flame Health haz	Danger	H225 H351 H332 H302	P201; P202; P210; P233; P240; P241; P242; P243; P264; P270; P271; P281; P304+P340; P312; P321; P308+P313; P301+P330+P331; P303+P361+P353; P370+P378; P403+P235; P405; P501	
607-020-00-4	Ethyl chloroformate	541-41-3	1182	Flam liquid 2 Acute tox 2 (inhalation) Acute tox 4 (oral) Skin corr 1B	Corrosion Flame Toxic	Danger	H225 H330 H302 H314	P210; P233; P240; P241; P242; P243; P260; P262; P264; P270; P271; P280; P284; P310; P320; P304+P340; P310; P301+P330+P331; P303+P361+P353; P363; P370+P378; P305+P351+P338; P403+P233; P403+P235; P405; P501	
603-022-00-4	Ethyl ether, see Diethyl ether	60-29-7							

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-015-00-7	Ethyl formate	109-94-4	1190	Flam liquid 2 Acute tox 4 (inhalation) Eye irritant 2A STOT single 3 (respiratory)	Flame Irritant	Danger	H225 H332 H319 H335	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P304+P340; P312; P321; P303+P361+P353; P363; P305+P351+P338; P337+P313; P370+P378; P403+P235; P403+P233; P501	
607-129-00-7	Ethyl lactate	97-64-3	3272	Flam liquid 3 STOT single 3 (respiratory) Eye damage 1	Corrosion Flame	Danger	H226 H335 H318	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P321; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	



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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
016-022-00-9	Ethyl mercaptan	75-08-1	2363	Flam liquid 1 Acute tox 4 (inhalation) Acute aquatic 1 Chron aquatic1	Flame Environ haz	Danger	H224 H332 H400 H410	P210; P233; P240; P242; P243; P261; P271; P280; P312; P304+P340; P312; P321; P303+P361+P353; P370+P378; P273; P391; P403+P235; P501	
607-071-00-2	Ethyl methacrylate	97-63-2	2277	Flam liquid 2 Eye irritant 2A Skin irritant 2 STOT single 3 (respiratory)	Flame Exclamation mark	Danger	H225 H319 H315 H335	P210; P233; P240; P241; P242; P243; P261; P264; P271; P272; P280; P304+P340; P312; P321; P303+P361+P353; P333+P313; P363; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P501	
603-020-00-3	Ethyl methyl ether	540-67-0	1039	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
606-002-00-3	Ethyl methyl ketone	78-93-3	1193	Flam liquid 2 Eye irritant 2 STOT single 3 (narcotic)	Flame Exclamation mark	Danger	H225 H319 H336	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P337+P313; P303+P361+P353; P305+P351+P338; P370+P378; P403+P233; P403+P235; P405; P501	
007-007-00-8	Ethyl nitrate	625-58-1	—	Unstable expl	Exploding bomb	Danger	H200	P201; P202; P281; P372; P373; P380; P401; P501	An unstable explosive is too dangerous to be transported. Therefore an UN number has not been assigned.
007-006-00-2	Ethyl nitrite	109-95-5	3312	Flam gas 1 Acute tox 2 (inhalation)	Flame Toxic	Danger	H220 H330	P210; P260; P271; P284; P320; P377; P381; P304+P340; P310; P320; P403+P233; P405; P501	May explode when heated above 90 °C. Narcotic in high concentrations. Highly dangerous in contact with acids or acid fumes.

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
007-006-00-2	Ethyl nitrite solution	109-95-5	1194	Flam liquid 1 Acute tox 2 (inhalation)	Flame Toxic	Danger	H224 H330	P210; P233; P240; P241; P242; P243; P260; P271; P280; P284; 303+P361+P353; P370+P378; P304+P340; P310; P320; P403+P233; P403+P235; P405; P501	May explode when heated above 90 °C. Narcotic in high concentrations Highly dangerous in contact with acids or acid fumes.
607-028-00-8	Ethyl propionate	105-37-3	1195	Flam liquid 2	Flame	Danger	H225	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	Dangerous fire and explosion hazard when exposed to heat or flammable.
014-005-00-0	Ethyl silicate, see Tetraethyl silicate	78-10-4							
—	Ethyl tert-butylether	637-92-3	1179	Flam liq 2 STOT single 3 (narcotic)	Flame Exclamation mark	Danger	H225 H336	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P235; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-009-00-8	3-Ethyl-2-methylpentane (octane isomer)	609-26-7	1262	Flam liquid 2 Aspirate tox 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
601-009-00-8	3-Ethyl-3-methylpentane (octane isomer)	1067-08-9	1262	Flam liquid 2 Aspirate tox 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
612-002-00-4	Ethylamine	75-04-7	1036	Flam gas 1 Eye irritant 2A STOT single 3 (respiratory)	Flame Exclamation mark	Danger	H220 H319 H335	P210; P261; P264; P271; P280; P377; P381; P305+P351+P338; P337+P313; P304+P340; P312; P403+P233; P405; P501	Dangerous fire and explosion hazard when exposed to heat or flame.

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-002-00-4	Ethylamine, aqueous solution with $\geq 50\%$ < 70 % ethylamine, by mass	75-04-7	2270	Flam liquid 1 Eye irritant 2A STOT single 3 (respiratory)	Flame Exclamation mark	Danger	H224 H319 H335	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P370+P378; P303+P361+P353; P305+P351+P338; P337+P313; P304+P340; P312; P403+P233; P403+P235; P405; P501	A very dangerous fire hazard when exposed to heat or flame.
612-076-00-8	N-ethyldimethylamine	598-56-1	2734	Flam liquid 2 Acute tox 4 (inhalation) Acute tox 4 (oral) Skin corr 1B	Corrosion Flame	Danger	H225 H332 H302 H314	P210; P233; P240; P241; P242; P243; P260; P264; P270; P271; P280; P363; P304+P340; P312; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P370+P378; P405; 403+P235; P501	N-ethyldimethylamine has a boiling point of 36°C.
601-010-00-3	Ethylene	74-85-1	1962	Flam gas 1 STOT single 3 (narcotic)	Flame	Danger	H220 H336	P210; P261; P271; P312; P377; P381; P304+P340; P403+P233; P405; P501	
602-011-00-1	Ethylene chloride, see 1,1-Dichloro-ethane	75-34-3							

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
602-012-00-7	Ethylene dichloride	107-06-2	1184	Flam liquid 2 Carcinogen 1B Skin irritant 2 Eye irritant 2A STOT single 3 (respiratory)	Flame Health haz Irritant	Danger	H225 H350 H315 H319 H335	P201; P202; P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P281; P304+P340; P312; P308+P313; P305+P351+P338; P337+P313; P303+P361+P353; P321; P233+P313; P370+P378; P363; P403+P233; P403+P235; P405; P501	
603-032-00-9	Ethylene dinitrate	628-96-6	—	Unstable expl Acute tox 1 (dermal) STOT repeat 2	Exploding bomb Toxic	Danger	H200 H310 H373	P201; P202; P280; P281; P372; P373; P380; P260; P262; P264; P270; P320; P302+P352; P312; P322; P363; P401; P403+P233; P405; P501	An unstable explosive is too dangerous to be transported. Therefore no UN number has been assigned.

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-031-00-3	Ethylene glycol diethyl ether	110-71-4	1153	Flam liquid 2 Tox reprod 1B Acute tox 4 (inhalation)	Flame Health haz	Danger	H225 H360 H332	P201; P202; P210; P233; P240; P241; P242; P243; P261; P271; P281; P312; P304+P340; P312; P308+P313; P303+P361+P353; P370+P378; P403+P235; P405; P501	
603-032-00-9	Ethylene glycol dinitrate, see Ethylene dinitrate	628-96-6							
603-177-00-8	Ethylene glycol ethyl ether, see 1-Ethoxy-2-propanol	1569-02-4							
603-012-00-X	Ethylene glycol monoethyl ether	110-80-5	1171	Flam liquid 3 Tox reprod 1B	Flame Health haz	Danger	H226 H360	P201; P202; P281; P210; P233; P240; P241; P242; P243; P261; P308+P313; P303+P361+P353; P370+P378; P403+P235; P405; P501	
603-011-00-4	Ethylene glycol monomethyl ether	109-86-4	1188	Flam liquid 3 Tox reprod 1B	Flame Health haz	Danger	H226 H360	P201; P202; P281; P210; P233; P240; P241; P242; P243; P261; P308+P313; P303+P361+P353; P370+P378; P403+P235; P405; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-023-00-X	Ethylene oxide	75-21-8	1040	Flam gas 1 Carcinogen 1B Mutagen 1 Acute tox 3 (oral) Eye irritant 2A STOT single 3 (respiratory)	Flame Toxic Health haz	Danger	H220 H350 H340 H301 H319 H335	P201; P202; P210; P261; P264; P270; P271; P281; P321; P377; P381; P304+P340; P312; P308+P313; P302+P352; P362; P301+P310; P330; P305+P351+P338; P337+P313; P403+P233; P405; P501	
612-006-00-6	Ethylenediamine	107-15-3	1604	Flam liquid 3 Acute tox 3 (dermal) Skin corr 1B Resp sens 1 Skin sens 1	Corrosion Flame Health haz	Danger	H226 H312 H314 H334 H317	P210; P233; P240; P241; P242; P243; P260; P262; P264; P270; P272; P280; P285; P321; P363; P304+P341; P321; P342+P311; P301+P330+P331; P303+P361+P353; P305+P351+P338; P333+P313; P370+P378; P403+P235; P405; P501	



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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
613-001-00-1	Ethyleneimine, stabilized	151-56-4	1185	Flam liquid 2 Carcinogen 1B Mutagen 1 Acute tox 2 (oral) Acute tox 1 (dermal) Acute tox 2 (inhalation) Skin corr 1B Chron aquatic 2	Corrosion Toxic Health haz Environ haz	Danger	H225 H350 H340 H300 H310 H330 H314 H411	P201; P202; P210; P240; P241; P242; P243; P260; P262; P264; P270; P271; P281; P284; P320; P304+P340; P310; P320; P308+P313; P370+P378; P301+P330+:P353; P321; P303+P361+P353; P310; P322; P363; P305+P351+P338; P273; P391; P403+P233; P403+P235; P405; P501	
601-009-00-8	3-Ethylhexane (octane isomer)	619-99-8	1262	Flam liquid 2 Aspirate tox 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-008-00-2	3-Ethylpentane (heptane isomer)	617-78-7	1206	Flam liquid 2 Aspirate tox 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
601-015-00-0	Ethyne, see Acetylene	74-86-2	1001 3374	Flam gas 1	Flammable	Danger	H220	P210; P377; P381; P403	
015-123-00-5	Fenamiphos (ISO common name)	22224-92-6	2783 1284 3017 3018	Acute tox 2 (oral) Acute tox 2 (dermal) Acute tox 1 (inhalation) Eye irritant 2A Acute aquatic 1 Chron aquatic 1	Toxic Environ haz	Danger	H300 H310 H330 H319 H400 H410	P102; P260; P262; P264; P270; P271; P280; P284; P301+P310; P321; P330; P302+P350; P310; P322; P361; P363; P304+P340; P310; P320; P305+P351+P338; P337+P313; P391; P403+P233; P403+P235; P405; P501	Fenamiphos is an organo phosphorus pesticide.  For transport, different UN numbers are assigned to a pesticide depending its physical form and flammability. See annex B.2 of SANS 10228.

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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
–	Fenpropidin (ISO common name)	67306-00-7	3082	Skin irritant 2 Eye irritant 2A Skin sens 1 Acute aquatic 1 Chron aquatic 1	Exclamation mark Environ haz	Warning	H335 H315 H319 H317 H400 H410	P102; P261; P264; P270; P271; P272; P280; P321; P363; P301+P312; P330; P302+P352; P321; P332+P313; P362; P304+P340; P312; P305+P351+P338; P337+P313; P273; P391; P501	Fenpropidin is a morpholine; piperidine used as a fungicide.
607-475-00-5	Flocoumafen (ISO common name)	900035-08-8	3024 3025 3026 3027	Acute tox 1 (oral) Acute tox 1 (inhalation) STOT repeat 1	Toxic Health haz	Danger	H300 H330 H372	P102; P260; P264; P270; P271; P284; P314; P301+P310; P321; P330; P304+P340; P310; P320; P307+P311; P321; P403+P233; P405; P501	Flocoumafen is a coumarin anticoagulant analogue and is used as a rodenticide. For transport, different UN numbers are assigned to a pesticide depending its physical form and flammability. See annex B.2 of SANS 10228.
009-001-00-0	Fluorine	7782-41-4	1045	Oxid gas 1 Acute tox 2 (inhalation) Skin corr 1A	Flame over circle Corrosion Toxic	Danger	H270 H330 H314	P220; P244; P260; P262; P264; P271; P280; P284; P321; P363; P304+P340; P310; P320; P370+P376; P301+P330+P331; P303+P361+P353; P305+P351+P338; P310; P403+P233; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
613-071-00-3	2-Fluoro-5-trifluoromethylpyridine	69045-82-5	1993	Flam liquid 3 Skin sens 1 Chron aquatic 3	Flame Exclamation mark	Warning	H226 H317 H412	P210; P233; P240; P241; P242; P243; P261; P272; P280; P302+P313; P303+P361+P353; P333+P313; P321; P363; P370+P378; P273; P391; P403+P235; P501	
605-001-00-5	Formaldehyde solution with not less than 25 % formaldehyde	50-00-0	2209	Acute tox 3 (oral) Acute tox 3 (dermal) Acute tox 3 (inhalation) Skin corr 1 Eye damage 1 Carcinogen 2	Corrosion Toxic Health haz	Danger	H301 H311 H331 H314 H318 H351	P201; P202; P260; P264; P270; P271; P272; P280; P304+P340; P311; P321; P308+P313; P333+P313; P301+P330+P331; P321; P303+P361+P353; P312; P322; P363; P305+P351+P338; P310; P403+P233; P405; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
605-001-00-5	Formaldehyde solution, flammable	50-00-0	1198	Flam liquid 3 Skin corr 1C Eye damage 1 Carcinogen 2 Resp sens 1	Flame Corrosion Health hazard	Danger	H226 H314 H318 H351 H334	P201; P202; P210; P233; P240; P241; P242; P243; P260; P264; P281; P285; P312; P321; P361; P301+P330+P331; P303+P361+P353; P312; P322; P363; P305+P351+P338; P337+P313; P304+P340; P310; P321; P342+P311; P370+P378; P308+P313; P403+P235; P405; P501	
605-001-00-5	Formaldehyde solution, with not less than $\geq 5\%$ < 25 %	50-00-0	—	Eye irrit 2A Skin irrit 2 STOT single 3 (respiratory) Acute aquatic 1	Exclamation mark Environ haz	Warning	H319 H315 H335 H400	P261; P264; P270; P271; P280; P301+P312; P330; P302+P352; P321; P332+P313; P362; P304+P340; P312; P305+P351+P338; P337+P313; P273; P391; P403+P233; P405; P501	Not hazardous for transport.

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-105-00-5	Furan	110-00-9	2389	Flam liquid 1 Carcinogen 1B STOT repeat 2 Skin irrit 2 Chron aquatic 3	Flame Exclamation mark	Danger	H224 H350 H373 H315 H412	P201; P202; P210; P233; P240; P241; P242; P243; P260; P264; P280; P281; P321; P362; P302+P352; P308+P313; P303+P361+P353; P332+P313; P370+P378; P403+P235; P405; P501	Avoid skin contact as furan can be absorbed through the skin.  Contact with acids can initiate a violent exothermic reaction.
–	Gallium arsenide	1303-00-0	–	Carcinogen 2 Reprod tox 1B STOT repeat 1	Health haz	Danger	H351 H360 H372	P201; P202; P260; P264; P270; P281; P314; P308+P313; P405; P501	Not hazardous for transport.
603-034-00-X	Glycerol trinitrate, see Nitroglycerine	55-63-0							
603-056-00-X	Glycidyl p-tolyl ether	2186-24-5	–	Skin irritant 2 Eye irritant 2A Skin sens 1 Chron aquatic 2	Environ haz Exclamation mark	Warning	H315 H319 H317 H411	P261; P264; P272; P280; P321; P363; P362; P302+P352; P321; P332+P313; P333+P313; P305+P351+P338; P337+P313; P273; P391; P501	Not hazardous for transport.

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-008-00-2	Heptane	142-82-5	1206	Flam liquid 2 Aspirate haz 1 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P301+P310; P331; P304+P340; P312; P303+P361+P353; P321; P332+P313; P363 P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
606-024-00-3	2-Heptanone, see Methyl amyl ketone	110-43-0							
606-003-00-9	3-Heptanone, see Butyl ethyl ketone	106-35-4							
606-027-00-X	4-Heptanone, see Di-n-propyl ketone	565-80-0							

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
602-078-00-7	Hexachlorocyclopentadiene	77-47-4	2646	Acute tox 4 (oral) Acute tox 3 (dermal) Acute tox 1 (inhalation) Skin corr 1C Eye damage 1 Skin sens 1 Acute aquatic 1 Chron aquatic 1	Corrosion Toxic Environ haz	Danger	H302 H311 H330 H314 H318 H317 H400 H410	P260; P261; P262; P264; P270; P271; P272; P280; P284; P320; P272; P301+P312; P330; P312; P304+P340; P310; P320; P333+P313; P301+P330+P331; P303+P361+P353; P333+P313; P363; P305+P351+P338; P310; P273; P391; P403+P233; P405; P501	
612-101-00-2	Hexamethylenetetramine, see Methen-amine	100-97-0							



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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-037-00-0	n-Hexane	110-54-3	1208	Flam liquid 2 Tox reprod 2 Aspirate haz 1 STOT repeat 2 Eye irrit 2A STOT single 3 (narcotic) Chron aquat 2	Flame Health haz Environ haz	Danger	H225 H361 H304 H373 H319 H336 H411	P201; P202; P210; P233; P240; P241; P242; P243; P261; P264; P271; P281; P321; P301+P310; P331; P304+P340; P312; P308+P313; P303+P361+P353; P363; P305+P351+P338; P337+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
601-007-00-7	Hexane, mixture of isomers, containing < 5 % n-hexane, by mass	—	1208	Flam liquid 2 Aspirate haz 1 Preprod tox 2 Eye irrit 2A STOT single 3 (narcotic) Chron aquatic 2	Flame Health haz Environ haz	Danger	H225 H304 H319 H336 H411	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P301+P310; P331; P304+P340; P312; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
606-030-00-6	2-Hexanone	591-78-6	1224	Flam liquid 2 Aspirate haz 1 Preprod tox 2 Eye irrit 2A STOT single 3 (narcotic) Chron aquatic 2	Flame Health haz Environ haz	Danger	H225 H304 H319 H336 H411	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P301+P310; P331; P304+P340; P312; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
612-018-00-1	Hexyl	131-73-7	0079	Explosive 1.1D Acute tox 2 (oral) Acute tox 1 (dermal) Acute tox 2 (inhalation) STOT repeat 2 Chron aquatic 2	Exploding bomb Toxic	Danger	H201 H300 H310 H330 H373 H411	P201; P230; P240; P250; P280; P370+P380; P372; P373; P260; P262; P264; P270; P271; P284; P301+P310; P321; P330; P302+P350; P310; P322; P361; P363; P304+P340; P310; P320; P273; P391; P401; P403+P233; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
003-002-00-X	Hexyllithium	21369-64-2	3131	Water-react 1 Pyr solid 1 Skin corr 1A	Flammable Corrosive	Danger	H260 H250 H314	P210; P222; P223; P335+P334; P370+P378; P231+P232; P260; P264; P280; P310+P330+P331; P303+P361+P353; P363; P304+P340; P310; P321; P305+P351+P338; P402+P404; P405; P422; P501	
007-008-00-3	Hydrazine, anhydrous	302-01-2	2029	Flam liquid 3 Carcinogen 1B Skin corr 1B Acute aquatic 1 Chron aquatic 1	Corrosion Flame Health haz Environ haz	Danger	H226 H350 H314 H400 H410	P201; P202; P233; P240; P241; P242; P243; P260; P264; P270; P272; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P333+P313; P321; P363; P370+P378; P305+P351+P338; P273; P391; P403+P233; P403+P235; P405; P501	
007-008-00-3	Hydrazine, aqueous solution, concentration > 37 % hydrazine, by mass	302-01-2	2030	Skin corr 1C Skin sens 1 Carcinogen 1B Acute aquatic 2 Chron aquatic 2	Corrosion Health haz Environ haz	Danger	H314 H317 H350 H401 H411	P201; P202; P260; P264; P281; P270; P272; P361; P304+P340; P310; P321; P301+P330+P331;	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
								P303+P361+P353; P321; P363; P305+P351+P338; P273; P391; P405; P501	
007-008-00-3	Hydrazine, aqueous solution, concentration $\leq$ 37 % hydrazine, by mass	302-01-2	3293	Carcinogen 1B Skin irritant 2 Acute aquatic 3 Chron aquatic 3	Health haz	Danger	H350 H315 H402 H412	P202; P261; P264; P270; P272; P281; P302+P352; P321; P363; P301+P330+P331; P308+P313; P273; P391; P401; P405; P501	
017-002-01-X	Hydrochloric acid, concentration $\geq$ 10 % < 25 %, by mass	7647-01-0	1789	Skin irritant 2 Eye irritant 2A STOT single 3 (respiratory)	Exclamation mark	Warning	H315 H319 H335	P261; P264; P271; P280; P304+P340; P312; P302+P352; P321; P332+P313; P362; P305+P351+P338; P337+P313; P403+P233; P405; P501	

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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
017-002-01-X	Hydrochloric acid, concentration > 25 %, by mass	7647-01-0	1789	Skin corr 1C Eye damage 1 STOT single 3 (respiratory)	Corrosion Exclamation mark	Danger	H314 H318 H335	P260; P261; P264; P271; P280; P301+P330+P331; P303+P361+P353; P363; P304+P340; P310; P321; P305+P351+P338; P310; P403+P233; P405; P501	
006-006-00-X	Hydrocyanic acid , see Hydrogen cyanide	74-90-8							
001-001-00-9	Hydrogen	1333-74-0	1049	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	
017-002-01-X	Hydrogen chloride, anhydrous	7647-01-0	1050	Compressed gas Acute tox 2 (inhalation) Skin corr 1A Eye damage 1	Gas cylinder Corrosion Toxic	Danger	H280 H330 H314 H318	P260; P264; P271; P284; P304+P340; P310; P320; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P310; P403+P233; P410+P403; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
017-002-01-X	Hydrogen chloride, refrigerated liquid (cryogenic gas)	7647-01-0	2186	Refrigerated gas Acute tox 2 (inhalation) Skin corr 1A Eye damage 1	Gas cylinder Corrosion Toxic	Danger	H281 H330 H314 H318	P260; P264; P282; P336; P284; P304+P340; P310; P320; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P403+P233; P405; P501	
006-006-00-X	Hydrogen cyanide solution in alcohol with ≤ 45 % hydrogen cyanide	74-90-8	3294	Flam liquid 1 Acute tox 2 (inhalation) Acute aquatic 1 Chron aquatic 1	Flammable Toxic Environ haz	Danger	H224 H330 H400 H410	P210; P233; P240; P241; P242; P243; P260; P271; P280; P284; P304+P340; P310; P320; P403+P233; P391; P303+P361+P353; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
006-006-00-X	Hydrogen cyanide, aqueous solution with ≤ 20 % hydrogen cyanide	74-90-8	1613	Acute tox 2 (inhalation) Acute aquatic1 Chron aquatic 1	Toxic Environ haz	Danger	H330 H401 H410	P260; P271; P273; P284; P310; P320; P391; P304+P340; P403+P233; P405; P501	

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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
006-006-00-X	Hydrogen cyanide, stabilized, containing less than 3 % water and absorbed in a porous inert material	74-90-8	1614	Acute tox 2 (inhalation) Acute aquatic 1 Chron aquatic 1	Toxic Environ haz	Danger	H330 H400 H410	P260; P271; P284; P304+P340; P310; P320; P273; P391; P403+P233; P405; P501	
006-006-00-X	Hydrogen cyanide; stabilized containing less than 3 % water	74-90-8	1051	Flam liquid 1 Acute tox 2 (inhalation) Acute aquatic 1 Chron aquatic 1	Flame Toxic Environ haz	Danger	H224 H330 H400 H410	P210; P233; P240; P241; P242; P243; P260; P271; P280; P284; P304+P340; P310; P320; P303+P361+P353; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
008-003-00-9	Hydrogen peroxide solution, concentration > 20 % < 60 %, by mass	7722-84-1	2014	Oxid liquid 2 Skin corr 1B Acute tox 4 (oral) Acute tox 4 (dermal)	Flame over circle Corrosion	Danger	H272 H314 H302 H312	P102; P210; P220; P221; P260; P264; P270; P271; P280; P304+P340; P310; P321; P370+P378; P301+P330+P331; P303+P361+P353; P312; P322; P363; P305+P351+P338; P405; P501	
008-003-00-9	Hydrogen peroxide solution, concentration > 8 % but < 20 %	7722-84-1	2984	Oxid liquid 3 Skin irritant 2	Flamle over circle Exclamation mark	Warning	H272 H315	P102; P210; P220; P221; P264 ; P280; P302+P352; P321; P332+P313; P362; P370+P378; P501	

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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
008-003-00-9	Hydrogen peroxide solution, stabilized concentration > 60 %, by mass	7722-84-1	2015	Oxid liquid 1 Skin corr 1A Acute tox 4 (oral) Acute tox 4 (inhalation)	Flame over circle Corrosion	Danger	H271 H314 H302 H332	P210; P220; P221; P260; P264; P270; P271; P280; P283; P304+P340; P310; P321; P301+P330+P331; P306+P360; P370+P378; P303+P361+P353; P363; P305+P351+P338; P371+P380+P375; P405; P501	
612-123-00-2	Hydroxylamine hydrochloride, see Hydroxylammonium chloride	5470-11-1							
612-123-00-2	Hydroxylamine sulfate (2:1), see Bis(hydroxylammonium) sulfate	10039-54-0							



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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-122-00-7	Hydroxylamine, concentration > 55 % but < 80 %, by mass	7803-49-8	3221	Self-reactive liquid Type B STOT repeat 2 STOT single 3 (respiratory) Skin irritant 2 Eye damage 1 Acute aquatic 1	Flame Exploding bomb Corrosion	Danger	H241 H373 H335 H315 H318 H400	P210; P220; P234; P260; P264; P271; P272; P280; P302+P352; P333+P313; P321; P363; P304+P340; P312; P370+P378; P305+P351+P338; P310; P370+P380+P375; P273; P391; P403+P233; P403+P235; P405; P411; P420; P501	Dangerous fire hazard if exposed to heat, flame and oxidizers.  Explodes in air when heated above 70 °C.
612-122-01-4	Hydroxylamine, concentration ≤ 55 %, by mass	7803-49-8	3223	Self-reactive liquid Type C Skin irritant 3 Eye irritant 2A Acute aquatic 2	Flame Exclamation mark Environ haz	Danger	H242 H316 H319 H401	P210; P220; P234; P264; P280; P332+P313; P370+P378; P305+P351+P338; P337+P313; P370+P380+P375; P273; P391; P403+P235; P411; P420; P501	
612-122-00-7	Hydroxylamine, concentration, > 80 % hydroxylamine, by mass	7803-49-8	—	Unstable expl	Exploding bomb	Danger	H200	P201; P202; P281; P372; P373; P380; P401; P501	Unstable explosives are too dangerous to be transported. Therefore no UN number has been assigned.
612-123-00-2	Hydroxylammonium chloride	5470-11-1	3259	Metal corr 1	Corrosion	Warning	H290	P234; P390; P406	

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
–	Indium phosphide	22398-80-0	–	Carcinogen 1B Reprod tox 2 STOT repeat 1	Health haz	Danger	H350 H361 H372	P201; P202; P260; P264; P270; P281; P314; P308+P313; P405; P501	Not hazardous for transport.
602-054-00-6	3-Iodopropene, see Allyl iodide	556-65-9							
607-018-00-3	Isoamyl formate, see Isopentyl formate	110-45-2							
606-026-00-4	Isoamyl methyl ketone	110-12-3	2302	Flam liquid 3 Acute tox 4 (inhalation)	Flame Exclamation mark	Warning	H226 H332	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P235; P501	
601-004-00-0	Isobutane	75-28-5	1969	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	
601-004-00-0	Isobutane containing ≥ 0,1 % butadiene	75-28-5	1969	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-108-00-1	Isobutanol	78-83-1	1212	Flam liquid 3 STOT single 3 (respiratory) STOT single 3 (narcotic) Eye damage 1	Corrosion Flame	Danger	H226 H335 H336 H318	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P405; P501	
607-026-00-7	Isobutyl acetate	110-19-0	1213	Flam liquid 2	Flame	Danger	H225	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	
607-115-00-0	Isobutyl acrylate, stabilized	106-63-8	2527	Flam liquid 3 Skin irritant 2 Skin sens 1	Flame Exclamation mark	Warning	H226 H315 H317	P210; P233; P240; P241; P261; P264; P272; P280; P312; P303+P361+P353; P302+P352; P321; P333+P313; P362; P370+P378; P403+P235; P501	
603-108-00-1	Isobutyl alcohol, see Isobutanol	78-83-1							

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-017-00-8	Isobutyl formate	542-55-2	2393	Flam liquid 2 Eye irritant 2A	Flame Exclamation mark	Danger	H225 H319	P210; P233; P240; P241; P242; P243; P264; P280; P303+P361+P353; P370+P378; P305+P352+P338; P337+P313; P403+P235; P501	
014-009-00-2	Isobutyl isopropyl dimethoxysilane	111439-76-0	3271	Flam liquid 3 Acute tox 4 (inhalation) Skin irritant 2	Flame	Warning	H226 H332 H315	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P302+P352; P332+P313; P303+P361+P353; P321; P363; P322+P313; P370+P378; P403+P235; P501	

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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-113-00-X	Isobutyl methacrylate	97-86-9	2283	Flam liquid 3 Eye irritant 2A Skin irritant 2 STOT single 3 (respiratory) Acute aquatic 1	Flame Exclamation mark Environ haz	Warning	H226 H319 H315 H335 H400	P210; P233; P240; P241; P242; P243; P261; P264; P271; P272; P280; P304+P340; P312; P303+P361+P353; P321; P363; P333+P313; P305+P351+P338; P337+P313; P370+P378; P273; P391; P403+P233; P403+P235; P501	
606-004-00-4	Isobutyl methyl ketone	108-10-1	1245	Flam liquid 2 Acute tox 4 (inhalation) Eye irritant 2A STOT single 3 (respiratory)	Flame Exclamation mark	Danger	H225 H332 H319 H335	P210; P233; P240; P241; P242; P243; P261; P264; P280; P304+P340; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
007-017-00-2	Isobutyl nitrite	542-56-3	2351	Flam liquid 2 Carcinogen 1B Mutagen 2 Acute tox 3 (inhalation)	Flame Health haz Toxic	Danger	H225 H350 H341 H331	P201; P202; P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P321; P304+P340; P312; P321; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	
607-029-00-3	Isobutyl propionate	540-42-1	1914	Flam liquid 3	Flame	Warning	H226	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	
607-140-00-7	Isobutyryl chloride	79-30-1	2395	Flam liquid 2 Skin corr 1A	Corrosion Flame	Danger	H225 H314	P210; P233; P240; P241; P242; P243; P260; P262; P264; P280; P301+P330+P331; P304+P340; P310; P321; P370+P378; P303+P361+P353; P363; P305+P351+P338; P403+P235; P405; P501	

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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-008-00-2	Isoheptane	31394-54-4	1206	Flam liquid 2 Aspirate haz. 1 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P301+P310; P331; P304+P340; P312; P321; P303+P361+P353; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
601-009-00-8	Isooctane, see 2,2,4-Trimethyl pentane	540-84-1							
601-006-00-1	Isopentane	78-78-4	1265	Flam liquid 1 Aspirate haz 1 STOT single 3 (narcotic) Chron aquatic 2	Flame Health haz Environ haz	Danger	H224 H304 H336 H411	P210; P233; P240; P241; P242; P243; P261; P271; P280; P331; P301+P310; P331; P303+P361+P353; P304+P340; P312; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-130-00-2	Isopentyl acetate	123-92-2	3272	Flam liquid 3 STOT single 3 (respiratory) Eye damage 1	Corrosion Flame	Danger	H226 H335 H318	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P305+P351+P338; P310; P370+P378; P403+P233; P403+P235; P405; P501	
607-018-00-3	Isopentyl formate	110-45-2	1109	Flam liquid 2 Eye irritant 2A STOT single 3 (respiratory)	Flame Exclamation mark	Danger	H225 H319 H335	P210; P233; P240; P241; P242; P243; P261; P262; P264; P271; P280; P304+P340; P312; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P501	Isopentyl formate has a closed-cup flashpoint of 22 °C.
607-131-00-8	Isopentyl propionate	105-68-0	3272	Flam liquid 3	Flame	Warning	H226	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	



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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-014-00-5	Isoprene (stabilized)	78-79-5	1218	Flam liquid 1 Carcinogen 1B Mutagen 2 Chron aquatic 3	Flame Health haz Environ haz	Danger	H224 H350 H341 H412	P201; P202; P210; P233; P240; P241; P242; P243; P281; P308+P313; P303+P361+P353; P370+P378; P273; P391; P403+P235; P405; P501	
603-117-00-0	Isopropanol	67-63-0	1219	Flam liquid 2 Eye irritant 2A STOT single 3 (narcotic)	Flame Exclamation mark	Danger	H225 H319 H336	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P305+P351+P338; P337+P313; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	
607-024-00-6	Isopropyl acetate	108-21-4	1220	Flam liquid 2 Eye irritant 2A STOT single 3 (narcotic)	Flammable Irritant	Danger	H225 H319 H336	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P305+P351+P338; P337+P313; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-117-00-0	Isopropyl alcohol, see Isopropanol	67-63-0							
607-206-00-5	Isopropyl chloroacetate	105-48-6	2947	Flam liquid 3 Acute tox 3 (oral) Eye irritant 2A Skin irritant 2 STOT single 3 (respiratory)	Toxic Flame Exclamation mark	Danger	H226 H301 H319 H315 H335	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P304+P340; P312; P301+P310; P321; P330; P303+P361+P353; P333+P313; P363; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P405; P501	
607-016-00-2	Isopropyl formate	625-55-8	1281	Flam liquid 2 Eye irritant 2A STOT single 3 (respiratory) STOT single 3 (narcotic)	Flame Exclamation mark	Danger	H225 H319 H335 H336	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P337+P313; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P403+P235; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-257-00-3	Isopropyl propionate	637-78-5	2409	Flam liquid 2	Flame	Danger	H225	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P233; P403+P235; P501	
649-404-00-4	Kerosene	8008-20-6	1223	Flam liquid 2 Acute tox 3 (inhalation) Aspirate haz 1	Flame Toxic Health haz	Danger	H226 H304	P102; P210; P233; P240; P241; P242; P243; P261; P271; P280; P303+P361+P353; P304+P340; P311; P321; P301+P310; P331; P370+P378; P403+P233; P405; P403+P235; P501	
612-007-00-1	Isopropylamine, see 2-Aminopropane	75-31-0							
609-019-00-4	Lead 2,4,6-trinitro- <i>m</i> -phenylene dioxide, see Lead styphnate	15245-44-0							
609-019-00-4	Lead 2,4,6-trinitroresorcinoxide, see Lead styphnate	15245-44-0							
082-003-00-7	Lead azide	13424-46-9	–	Unstable expl Reprod tox 1A STOT repeat 2 Acute aquat 1 Chron aquat 1	Exploding bomb Health haz Environ haz	Danger	P200 H360 H373 H400 H410	P201; P202; P281; P372; P373; P380; P260; P281; P314; P372; P373; P380; P273; P391; P308+P313; P401; P405; P501	The dry product is an unstable explosive and too dangerous to be transported. Therefore, no UN number has been assigned.

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
082-003-00-7	Lead azide with $\geq 20\%$ water or phlegmatizer	13424-46-9	–	Explosive 1.1 Reprod tox 1B STOT repeat 2 Acute aquatic 2 Chron aquatic 2	Exploding bomb Health haz Environ haz	Danger	H201 H360 H373 H400 H411	P201; P202; P230; P240; P250; P281; P370+P380; P372; P373; P260; P314; P314; P308+P313; P273; P391; P401; P501	Contact the Chief Inspector of Explosives, SA Police Service for the UN number.  A phlegmatizer renders an explosive insensitive, or less sensitive, to heat, shock, impact, percussion or friction.
609-019-00-4	Lead styphnate	15245-44-0	–	Unstable expl Reprod tox 1A STOT repeat 2 Acute aquat 1 Chron aquat 1	Exploding bomb Health haz Environ haz	Danger	P200 H360 H373 H400 H410	P201; P202; P281; P372; P373; P380; P260; P281; P314; P372; P373; P380; P273; P391; P308+P313; P401; P405; P501	The pure substance is an unstable explosive and too dangerous to be transported. Therefore, no UN number has been assigned.
609-019-00-4	Lead styphnate, wetted with not less than 20 % water, or a mixture of water and alcohol, by mass	15245-44-0	0130	Explosive 1.1A Reprod tox 1B STOT repeat 2 Acute aquatic 2 Chron aquatic 2	Exploding bomb Health haz Environ haz	Danger	H201 H360 H373 H401 H411	P201; P202; P230; P240; P250; P281; P370+P380; P372; P373; P260; P314; P314; P308+P313; P273; P391; P401; P501	
–	Leucomalachite green	129-73-7	–	Carcinogen 2 Acute aquatic 1 Chron aquatic 1	Health haz Environ haz	Warning	H351 H400 H410	P201; P202; P281; P273; P391; P308+P313; P405; P501	Not hazardous for transport.

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
649-263-00-9	Ligroin	8032-32-4	1268	Flam liquid 2 Acute tox 3 (oral) Acute tox 3 (inhalation) Aspirate haz 2	Flame Toxic Health haz	Danger	H225 H301 H331 H305	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P301+P310; P330; P331; P304+P340; P312; P321; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	A saturated volatile fraction of petroleum with a boiling point in the range 60 °C to 110 °C
601-029-00-7	1-Limonene, see (S)-p-Mentha-1,8-diene	5989-54-8							
601-029-00-7	<i>α</i> -Limonene, see (R)-p-Mentha-1,8-diene	5989-27-5							
601-029-00-7	Limonene, see Dipentene	138-86-3							
003-001-00-4	Lithium	7439-93-2	1415	Water-react 1 Skin corr 1B	Flame Corrosion	Danger	H260 H314	P223; P231+P232; P335+P334; P370+P378; P260; P264; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P402+P404; P405; P501	
603-040-00-2	Lithium methoxide, see Lithium methylate	865-34-9							

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-040-00-2	Lithium methylate	865-34-9	2925	Flam solid 1 Skin corr 1B	Flame Corrosion	Danger	H228 H314	P210; P240; P241; P260; P370+P378; P264; P280; P304+P340; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P405; P501	
012-003-00-4	Magnesium alkyls	—	3053	Pyr liquid 1 Skin corr 1B	Flame Corrosion	Danger	H250 H314	P210; P222; P260; P264; P280; P302+P334; P370+P378; P301+P330+P331; P363; P304+P340; P310; P321; P303+P361+P353; P305+P351+P338; P405; P422; P501	
009-018-00-3	Magnesium hexafluorosilicate, concentration $\geq 1\%$ < 10 %, by mass	16949-65-8	—	Acute tox 4 (oral)	Exclamation mark	Warning	H302	P264; P270; P301+P312; P330; P501	Not hazardous for transport.
009-018-00-3	Magnesium hexafluorosilicate, concentration $\geq 10\%$ , by mass	16949-65-8	3288	Acute tox 3 (oral)	Toxic	Danger	H301	P264; P270; P301+P310; P321; P330; P405; P501	

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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
015-005-00-3	Magnesium phosphide	12057-74-8	3134	Water-react 1 Acute tox 2 (oral) Acute aquat 1	Flammable Toxic Environ haz	Danger	H260 H300 H400	P223; P231+P232; P280; P335+P334; P370+P378; P264; P270; P301+P310; P331; P321; P330; P273+P391; P402+P404; P405; P501	
012-001-00-3	Magnesium powder (pyrophoric)	7439-95-4	1418	Water-react 1 Pyr solid 1	Flame	Danger	H260 H250	P210; P222; P223; P280; P302+P334; P370+P278; P231+P232; P335+P334; P422; P402+P404; P501	
012-002-00-9	Magnesium, pellets, ribbons or turnings	—	1869	Flam solid 1 Water-react 2	Flame	Danger	H228 H261	P210; P223; P240; P241; P280; P370+P378; P231+P323; P335+P334; P402+P404; P501	
603-036-00-0	Mannitol hexanitrate	15825-70-4	—	Unstable expl	Exploding bomb	Danger	H200	P201; P202; P281; P372; P373; P380; P401; P501	Mannitol hexahydrate (nitromannite) is an unstable explosive and too dangerous to be transported. Therefore, no UN number has been assigned.
603-036-00-0	Mannitol hexanitrate, wetted with ≥ 40 % water, or a mixture of alcohol and water, by mass	15825-70-4	0133	Explosive 1.1D	Exploding bomb	Danger	H201	P201; P230; P240; P250; P280; P370+P380; P372; P373; P401; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-029-00-7	(R)-p-Mentha-1,8-diene	5989-27-5	2052	Flam liquid 3 Skin sens 1 Acute aquatic 1 Chron aquatic 1	Flame Environ haz	Warning	H226 H317 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P272; P280; P333+P313; P303+P361+P353; P333+P313; P321; P363; P370+P378; P273; P391; P403+P235; P501	
601-029-00-7	(S)-p-Mentha-1,8-diene	5989-54-8	205k 2	Flam liquid 3 Skin sens 1 Acute aquatic 1 Chron aquatic 1	Flame Environ haz	Warning	H226 H317 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P272; P280; P333+P313; P303+P361+P353; P333+P313; P321; P363; P370+P378; P273; P391; P403+P235; P501	



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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
617-012-00-2	p-Menthyl hydroperoxide, concentration > 72 % but ≤ 100 %, by mass%	80-47-7	3105	Org perox D Skin corr 1B Acute tox 4 (inhalation)	Flame Corrosion	Danger	H242 H314 H332	P210; P220; P234; P260; P264; P271; P280; P301+P330+P331; P304+P340; P310; P321; P303+P361+P353; P363; P305+P351+P338; P370+P378; P370+P380+P375; P403+P235; P405; P411+P235; P410; P420; P501	
617-012-00-2	p-Menthyl hydroperoxide, concentration ≤ 72 % with not more than 28 % diluent Type A	80-47-7	3109	Org perox F Skin irritant 2	Flame Exclamation mark	Warning	H242 H315	P210; P220; P234; P264; P280; P321; P302+P352; P321; P332+P313; P362; P370+P378; P370+P380+P375; P403+P235; P410; P411+P235; P420; P501	See clause 3 of SANS 10234 for the definition of "diluent Type A".
080-005-00-2	Mercuric fulminate, dry, see Mercury fulminate	628-86-4							
080-005-01-X	Mercuric fulminate, with ≥ 20% phlegmatiser, by mass, see Mercury fulminate with ≥ 20 % phlegmatizer	628-86-4							

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
080-006-00-8	Mercuric oxycyanide	1335-31-5	–	Explosive 1.1 STOT repeat 2 Acute aquatic 1 Chron aquatic 1	Exploding bomb Toxic Environ haz	Danger	H201 H373 H400 H410	P201; P230; P240; P250; P273; P280; P370+P380; P372; P373; P260; P314; P304+P340; P273; P391; P401; P403+P233; P405; P501	Contact the Chief Inspector of Explosives of the SA Police Service for allocation of the UN number.
080-006-00-8	Mercuric oxycyanide, desensitized	1335-31-5	1642	Acute tox 3 (inhalation) Acute tox 3 (dermal) Acute tox 3 (oral) STOT repeat 2 Acute aquatic 1 Chron aquatic 1	Toxic Environ haz	Danger	H331 H311 H301 H373 H400 H410	P260; P264; P270; P271; P280; P284; P302+P352; P312; P322; P361; P363; P304+P340; P311; P321; P301+P310; P321; P330; P273; P391; P403+P233; P405; P501	
080-005-01-X	Mercury fulminate with $\geq 20\%$ phlegmatizer, by mass	628-86-4	–	Explosive 1.1 STOT repeat 2 Acute aquatic 1 Chron aquatic 1	Exploding bomb Toxic Environ haz	Danger	H201 H373 H400 H410	P201; P230; P240; P250; P271; P280; P370+P380; P372; P373; P273; P260; P314; P391; P401; P501	Contact the Chief Inspector of Explosives of the SA Police Service for allocation of the UN number.  A phlegmatizer renders an explosive insensitive, or less sensitive, to heat, shock, impact, percussion or friction.

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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
080-005-00-2	Mercury fulminate, dry	628-86-4	–	Unstable expl STOT repeat 2 Acute aquatic 1 Chron aquatic 1	Exploding bomb Toxic Environ haz	Danger	H200 H373 H400 H410	P201; P202; P281; P372; P373; P380; P260; P314;; P273; P391; P401; P405; P501	The dry product is an unstable explosive and is too dangerous to be transported. Therefore, no UN number has been assigned.
080-004-00-7	Mercury methylchloride	115-09-3	2025	Acute tox 1 (oral) Carcinogen 2 Mutagen 2 Reprod tox 1A Lactic effects Acute aquatic 1 Chron aquatic 1	Toxic Health haz Environ haz	Danger	H300 H351 H341 H360 H362 H400 H410	P201; P202; P260; P263; P264; P270; P281; P301+P310; P321; P330; P308+P313; P273; P391; P405; P501	
606-009-00-1	Mesityl oxide	141-79-7	1229	Flam liquid 3 Acute tox 3 (inhalation) Acute tox 4 (oral)	Toxic Flame	Danger	H226 H332 H302	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P301+P312; P330; P304+P340; P311; P321; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-025-00-5	Mesitylene	108-67-8	2325	Flam liquid 3 STOT single 3 (respiratory) Chron aquatic 2	Flame Exclamation mark Environ haz	Warning	H226 H335 H411	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P273; P391; P403+P233; P403+P235; P501	
605-005-00-7	Metaldehyde	108-62-3	1332	Flam solid 2 Acute tox 4 (oral)	Flame	Danger	H228 H302	P210; P240; P241; P280; P370+P378; P264; P270; P301+p312; P330; P501	
608-010-00-2	Methacrylonitrile	126-98-7	3079	Flam liquid 2 Skin sens 1	Flame Health haz	Danger	H225 H317	P210; P233; P240; P241; P242; P243; P272; P280; P321; P303+P361+P353; P321; P333+P313; P363; P370+P378; P403+P233; P403+P235; P501	
601-001-00-4	Methane, compressed	74-82-8	1971	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	
601-001-00-4	Methane, refrigerated liquid	74-82-8	1972	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	
016-021-00-3	Methanethiol, see Methyl mercaptan	74-93-1							

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-001-00-X	Methanol	67-56-1	1230	Flam liquid 2 Acute tox 3 (oral) STOT single 1	Flame Toxic Health haz	Danger	H225 H301 H370	P102; P210; P233; P240; P241; P242; P243; P260; P264; P270; P271; P280; P307+P311; P284; P304+P340; P311; P321; P301+P310; P321; P330; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	
603-001-00-X	Methanol, concentration ≥ 3 % < 10 %, by mass	67-56-1	—	Acute tox 4 (oral)	Exclamation mark	Warning	H302	P264; P270; P280; P301+P312; P330; P501	Not hazardous for transport.
612-101-00-2	Methenamine	100-97-0	1328	Flam solid 2 Resp sens 1 Skin sens 1	Flame Health haz	Danger	H228 H334 H317	P210; P240; P241; P261; P272; P280; P285; P370+P378; P302+P352; P333+P313; P321; P363; P304+P341; P342+P311; P501	
607-195-00-7	2-Methoxy-1-methylethyl acetate	108-65-6	3271	Flam liquid 3 Eye irritant 2A	Flame Exclamation mark	Warning	H226 H319	P210; P233; P240; P241; P242; P243; P264; P280; P305+P351+P338; P337+P313; P303+P361+P353; P370+P378; P403+P235; P501	

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-106-00-0	2-Methoxy-1-propanol	1589-47-5	3271	Reprod 1B Flam liquid 3	Health haz Flame	Danger	H226 H360	P201; P202; P210; P233; P240; P241; P242; P243; P281; P281; P308+P313; P303+P361+P353; P370+P378; P403+P235; P405; P501	
603-181-00-X	2-Methoxy-2-methylpropane, see tert-Butyl methyl ether	1634-04-4							
603-064-00-3	1-Methoxy-2-propanol, see Propylene glycol methyl ether	107-98-2							
606-023-00-8	4-Methoxy-4-methyl-2-pentanone	107-70-0	2293	Flam liquid 3 Acute tox 4 (inhalation)	Flame Exclamation mark	Warning	H226 H332	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P235; P501	
603-011-00-4	2-Methoxyethanol, see Ethylene glycol monoethyl ether	109-86-4							
603-021-00-9	Methoxyethylene, see Methyl vinyl ether	107-25-5							

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-251-00-0	2-Methoxypropyl acetate	70657-70-4	3271	Flam liquid 3 Reprod tox 1B STOT single 3 (respiratory)	Health haz Flame	Danger	H226 H360 H335	P201; P202; P210; P233; P240; P241; P242; P243; P261; P264; P271; P281; P308+P313; P304+P340; P312; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	
612-217-00-3	3-Methoxypropylamine	5332-73-0	2734	Flam liquid 2 Skin corr 1B Chron aquatic 3	Corrosion Flame Environ haz	Danger	H225 H314 H412	P210; P233; P240; P241; P242; P243; P260; P264; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P370+P378; P273; P391; P405; P403+P235; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
–	Methylated spirits	–	1986	Flam liquid 2 Acute tox 2 (oral) Acute tox 2 (inhalation) STOT single 1	Flame Toxic Health haz	Danger	H225 H300 H330 H370	P102; P210; P233; P240; P241; P242; P243; P260; P264; P270; P271; P307+P311; P321; P280; P284; P304+P340; P310; P301+P310; P330; 303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	This classification is applicable when the product contains methanol as a denaturing agent. If methanol (or any other toxic substance) has not been added UN number 1987 applies. See annex B.2 of SANS 10228)
615-012-00-7	4-Methybenzene sulphonyl isocyanate, see p-Toluenesulphonyl isocyanate	4083-64-1							
607-035-00-6	Methyl 2-methylpropenoate, see Methyl methacrylate	80-62-6							
615-022-00-1	Methyl 3-isocyanatosulfonyl-2-thiophene-carboxylate	79277-18-2	–	STOT repeat 2 Resp sens 1 Skin sens 1	Health haz	Danger	H373 H334 H317	P260; P272; P280; P285; P314; P302+P352; P333+P313; P321; P363; P304+P341; P342+P311; P501	Not hazardous for transport.



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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-021-00-X	Methyl acetate	79-20-9	1231	Flam liquid 2 Eye irritation 2A STOT single 3 (narcotic)	Flame Exclamation mark	Danger	H225 H319 H336	P210; P233; P240; P241; P242; P243 P261; P264; P271; P280; P304+P340; P312; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P405; P501	
607-034-00-0	Methyl acrylate	96-33-3	1919	Flam liquid 2 Acute tox 3 (oral) Eye irritant 2A Skin irritant 2 STOT single 3 (respiratory)	Flame Toxic	Danger	H225 H301 H319 H315	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P272; P280; P301+P310; P321; P330; P304+P340; P312; P303+P361+P353; P363; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
606-024-00-3	Methyl amyl ketone	110-43-0	1110	Flam liquid 3 Acute tox 4 (inhalation) Acute tox 4 (oral)	Flame Exclamation mark	Danger	H226 H332 H302	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P304+P340; P312; P301+P310; P330; P303+P361+P353; P370+P378; P403+P235; P501	
615-012-00-7	4-Methyl benzene	4083-64-1	–	Skin irritant 2 Eye irritant 2A STOT single 3 (respiratory) Resp sens 1	Health haz	Warning	H315 H319 H335 H334	P261; P264; P271; P280; P285; P304+P341; P342+P311; P312; P302+P352; P321; P332+P313; P362; P305+P351+P338; P337+P313; P405; P403+P233; P501	Not hazardous for transport.
606-030-00-6	Methyl butyl ketone, see 2-Hexanone	591-78-6							
602-001-00-7	Methyl chloride, see Chloromethane (Refrigerant gas R14)	75-00-3							

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-205-00-X	Methyl chloroacetate	96-34-4	2295	Flam liquid 3 Acute tox 3 (inhalation) Acute tox 3 (oral) STOT single 3 (respiratory) Skin irritant 2 Eye damage 1	Corrosion Toxic Flame	Danger	H226 H331 H301 H318	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P301+P310; P312; P330; P304+P340; P311; P303+P361+P353; P363; P305+P351+P338; P310; P370+P378; P403+P233; P403+P235; P405; P501	
607-019-00-9	Methyl chlorocarbonate, see Methyl chloroformate	79-22-1							
607-019-00-9	Methyl chloroformate	79-22-1	1238	Flam liquid 2 Acute tox 2 (inhalation) Acute tox 3 (oral) Skin corr 1B	Corrosion Flame Toxic	Danger	H225 H330 H301 H314	P210; P233; P240; P241; P242; P243; P260; P264; P270; P271; P280; P284; P304+P340; P310; P320; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P370+P378; P403+P233; P403+P235; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-075-00-3	Methyl chloromethyl ether	107-30-2	1239	Flam liquid 2 Carcinogen 1A	Flame Health haz	Danger	H225 H350	P201; P202; P210; P233; P240; P241; P242; P243; P261; P280; P281; P308+P313; P303+P361+P353; P370+P378; P403+P235; P405; P501	
607-014-00-1	Methyl formate	107-31-3	1243	Flam liquid 1 Acute tox 4 (inhalation) Eye irritant 2A STOT single 3 (respiratory)	Flame Exclamation mark	Danger	H224 H332 H319 H335	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P304+P340; P312; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P501	
603-008-00-8	Methyl isobutyl carbinol	108-11-2	2053	Flam liquid 3 STOT single 3 (respiratory)	Flame Exclamation mark	Warning	H226 H335	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
606-004-00-4	Methyl isobutyl ketone, see Isobutyl methyl ketone	108-10-1							
615-001-00-7	Methyl isocyanate	624-83-9	2480	Flam liquid 2 Reprod tox 2 Skin irritant 2 Eye damage 1 Resp sens 1	Corrosion Flame Health haz	Danger	H225 H361 H315 H318 H334	P201; P202; P210; P233; P240; P241; P242; P243; P261; P262; P264; P271; P272; P281; P285; P304+P340; P312; P321; P303+P361+P353; P333+P313; P363; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P405; P501	Methyl isocyanate has a closed-cup boiling point of 38°C.
606-007-00-0	Methyl isopropyl ketone	563-80-4	2397	Flam liquid 2	Flame	Danger	H225	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-092-00-7	Methyl lactate	547-64-8	3272	Flam liquid 3 Eye irritant 2 STOT single 3 (respiratory)	Flame Exclamation mark	Warning	H226 H319 H335	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P312; P304+P340; P312; P305+P351+P338; P337+P313; P303+P361+P353; P370+P378; P403+P233; P403+P235; P501	
016-021-00-3	Methyl mercaptan	74-93-1	1064	Flam gas 1 Acute tox 3 (inhalation) Acute aquatic 1 Chron aquatic 1	Flame Toxic Environ haz	Danger	H220 H331 H400 H410	P210; P260; P271; P284; P310; P377; P381; P304+P340; P311; P321; P273; P391; P403+P233; P403+P235; P405; P501	
607-035-00-6	Methyl methacrylate	80-62-6	1247	Flam liquid 2 STOT single 3 (respiratory) Skin irritant 2 Skin sens 1	Flame Exclamation mark	Danger	H225 H335 H315 H317	P210; P233; P240; P241; P242; P243; P261; P271; P272; P280; P304+P340; P312;; P303+P361+P353; P333+P313; P321; P363; P370+P378; P403+P233; P403+P235; P501	
607-034-00-0	Methyl propenoate, see Methyl acrylate	96-33-3							

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-027-00-2	Methyl propionate	554-12-1	1248	Flam liquid 2 Acute tox 4 (inhalation)	Flame Exclamation mark	Danger	H225 H332	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P235; P501	
613-037-00-8	4-Methyl pyridine	108-89-4	2313	Flam liquid 3 Skin irritant 2 Eye irritant 2A STOT single 3 (respiratory)	Flame Exclamation mark	Warning	H226 H302 H315 H319 H335	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P304+P340; P312; P305+P351+P338; P337+P313; P303+P361+P353; P332+P313; P370+P378; P403+P233; P403+P235; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
613-036-00-2	2-Methyl pyridine	109-06-8	2313	Flam liquid 3 Acute tox 4 (dermal) Acute tox 4 (oral) Eye irritant 2A STOT single 3 (respiratory)	Flame Exclamation mark	Warning	H226 H312 H302 H319 H335	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P304+P340; P312; P305+P351+P338; P337+P313; P301+P312; P330; P303+P361+P353; P312; P322; P363; P370+P378; P403+P233; P405; P501	
601-027-00-6	$\alpha$ -Methyl styrene	98-83-9	2618	Flam liquid 3 Eye irritant 2A STOT single 3 (respiratory) Chron aquatic 2	Flame Exclamation mark Environ haz	Warning	H226 H319 H335 H411	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P273; P391; P403+P233; P403+P235; P501	
603-021-00-9	Methyl vinyl ether, stabilized	107-25-5	1087	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	
601-014-00-5	2-Methyl-1,3-butadiene, see Isoprene (stabilized)	78-79-5							



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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
615-023-00-7	Methyl-2-(isocyanatosulfonylmethyl) benzoate	83056-32-0	3272	Flam liquid 3 Mutagen 2 Eye damage 1 Resp sens 1	Corrosion Flame Health haz	Danger	H226 H341 H318 H334	P201; P202; P210; P233; P240; P241; P242; P243; P261; P262; P271; P281; P285; P304+P341; P342+P311; P308+P313; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	
613-176-00-4	2-Methyl-2-azabicyclo[2.2.1]heptane, see Cycloheptatriene	4254-95-2							
606-007-00-0	3-Methyl-2-butanone, see Methyl isopropyl ketone	563-80-4							
607-321-00-0	(S)-Methyl-2-chloropropionate	73246-45-4	2933	Flam liquid 3 STOT repeat 2 Eye irritant 2A	Flame Health haz	Warning	H226 H373 H319	P210; P233; P240; P241; P242; P243; P260; P264; P280; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P501	
606-026-00-4	5-Methyl-2-hexanone, see Isoamyl methyl ketone	110-12-3							
603-008-00-8	4-Methyl-2-pentanol, see Methyl isobutyl carbinol	108-11-2							

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
606-004-00-4	4-Methyl-2-pentanone, see Isobutyl methyl ketone	108-10-1							
608-010-00-2	2-Methyl-2-propene nitrile, see Methacrylonitrile	126-98-7							
607-246-00-3	2-Methyl-2-propenoic acid 2-propenyl ester, see Allyl methacrylate	96-05-9							
606-020-00-1	5-Methyl-3-heptanone, see Ethyl amyl ketone	541-85-5							
601-029-00-7	(±)-1-Methyl-4-(1-methylvinyl) cyclohexene	7705-14-8	2052	Flam liquid 3 Skin sens 1 Acute aquatic 1 Chron aquatic 1	Flame Environ haz	Warning	H226 H317 H400 H410	P210; P233; P243; P264; P261; P280; P303+P361+P353; P333+P313; P321; P363; P370+P378; P273; P391; P403+P235; P501	
601-029-00-7	trans-1-Methyl-4-(1-methylvinyl) cyclohexene	6876-12-6	2052	Flam liquid 3 Skin irritant 2 Skin sens 1 Acute aquatic 1 Chron aquatic 1	Flame Environ haz	Warning	H226 H315 H317 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P272; P280; P303+P361+P353; P333+P313; P321; P363; P370+P378; P273+P391; P403+P235; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-001-00-9	Methylamine solution, concentration 0,5 % < 5 %, by mass	124-40-3	–	Skin irritant 3 Eye irritant 2B	None	Warning	H316 H320	P264; P305+P351+P338; P337+P313; P332+P313	Not hazardous for transport.
612-001-00-9	Methylamine solution, concentration ≥ 10 % < 15 %, by mass	124-40-3	2735	Skin corr 1A Eye damage 1	Corrosion	Danger	H314 H318	P260; P264; P280;; P305+P351+P338; P310; P405; P501	
612-001-00-9	Methylamine solution, concentration >15 %, by mass	124-40-3	2735	Skin corr 1B Eye damage 1	Corrosion	Danger	H314 H318	P260; P264; P270; P271; P280; P301+P330+P331; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P310; P405; P501	
612-001-00-9	Methylamine solution, concentration ≥ 5 % < 10 %, by mass	124-40-3	2735	Skin corr 1C Eye damage 1	Corrosion	Danger	H314 H318	P260; P264; P280; P321; P363; P301+P310; P301+P330+P331; P303+P361+P353; P304+P340; P305+P351+P338; P405; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-001-00-9	Methylamine, anhydrous	124-40-3	1061	Flam gas 1 STOT single 3 (respiratory) Skin corr 1B Eye damage 1	Flame Corrosion	Danger	H220 H335 H314 H318	P210; P337; P381; P260; P264; P271; P280; P312; P304+P340; P310; P321; P301+P361+P353; P305+P351+P338; P310; P303+P361+P353; P363; P321; P403+P233; P405; P501	
612-001-00-9	di-Methylamine, see Methylamine	124-40-3							
612-001-00-9	mono-Methylamine, see Methylamine	74-89-5							
612-001-00-9	tri-Methylamine, see Methylamine	75-50-3							
613-033-00-6	2-Methylaziridine, see Propyleneimine	75-55-8							
603-007-00-2	2-Methylbutan-2-ol, see tert-Pentanol	75-85-4							
601-006-00-1	2-Methylbutane, see Isopentane	78-78-4							

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-130-00-2	2-Methylbutyl acetate	624-41-9	3272	Flam liquid 3 STOT single 3 (respiratory) Eye damage 1	Corrosion Flame	Danger	H226 H335 H318	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P305+P351+P338; P310; P370+P378; P403+P233; P403+P235; P405; P501	
607-130-00-2	1-Methylbutyl acetate, see sec-Amyl acetate	626-38-0							
607-131-00-8	2-Methylbutyl propionate	2438-20-2	3272	Flam liquid 3	Flame	Warning	H226	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	
601-018-00-7	Methylcyclohexane	108-87-2	2296	Flam liquid 2 Aspirate haz 1 STOT single 3 (narcotic) Chron aquatic 2	Flame Health haz Environ haz	Danger	H225 H304 H336 H411	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P301+P310+P331; P303+P361+P353; P363; P370+P378; P273+P391; P403+P233; P403+P235; P405; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
606-011-00-2	2-Methylcyclohexanone	583-60-8	2297	Flam liquid 3 Acute tox 4 (oral)	Flame Exclamation mark	Warning	H226 H302	P210; P233; P240; P241; P242; P243; P264; P270; P280; P301+P312; P330; P303+P361+P353; P370+P378; P403+P235; P501	
601-009-00-8	2-Methylheptane (octane isomer)	592-27-8	1262	Flam liquid 2 Aspirate haz 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
601-009-00-8	3-Methylheptane (octane isomer)	589-81-1	1262	Flam liquid 2 Aspirate haz 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-009-00-8	4-Methylheptane (octane isomer)	589-53-7	1262	Flam liquid 2 Aspirate haz 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
606-026-00-4	5-Methylhexan-2-one, see Isoamyl methyl ketone	110-12-3							
601-008-00-2	2-Methylhexane (heptane isomer)	591-76-4	1206	Flam liquid 2 Aspirate haz 1 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-008-00-2	3-Methylhexane (heptane isomer)	589-34-4	1206	Flam liquid 2 Aspirate haz 1 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
080-004-00-7	Methylmercury	22967-92-6	2025	Acute tox 3 (oral) Carcinogen 2 Mutagen 2 Eye irritant 2A Lactic effects Acute aquatic 1 Chron aquatic 1	Toxic Health haz Environ haz	Danger	H301 H341 H351 H319 H362 H400 H410	P201; P202; P260; P263; P264; P270; P281; P301+P310; P330; P321; P302+P352; P321; P362; P305+P351+P338; P337+P313; P273; P391; P405 P501	
612-017-00-6	N-Methyl-N-2,4,6-tetranitroaniline, see Tetryl	479-45-8							
603-055-00-4	Methyloxirane, see Propylene oxide	75-56-9							
603-108-00-1	2-Methylpropan-1-ol, see Isobutanol	78-83-1							
603-005-00-1	2-Methylpropan-2-ol, see <i>tert</i> -Butyl alcohol	75-65-0							



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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-012-00-4	2-Methylpropene (butene isomer)	115-11-7		Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	
613-036-00-2	2-Methylpyridine, see 2-Picoline	109-06-8							
601-027-00-6	$\alpha$ -Methylstyrene, see 2-Phenylpropene	98-83-9							
–	Methyltin trichloride	993-16-8	–	Mutagen 2 Reprod tox 2	Health haz	Warning	H341 H361	P201; P202; P281; P308+P313; P405; P501	Not hazardous for transport.
–	Methyltin trichloride	993-16-8	–	Mutagen 2	Health haz	Warning	H341	P201; P202; P281; P308+P313; P405; P501	Not hazardous for transport.
–	Methyltin tris(2-ethylhexylmercaptoacetate)	57583-34-3	–	Mutagen 2 Reprod tox 2 Acute tox 4 (oral)	Health haz	Warning	H341 H361 H302	P201; P202; P264; P270; P281; P301+P312; P330; P308+P313; P405; P501	Not hazardous for transport.
–	Methyltin tris(2-ethylhexy-mercaptoacetate)	57583-34-3	–	Mutagen 2	Health haz	Warning	H341	P201; P202; P281; P308+P313; P405; P501	Not hazardous for transport.

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
014-004-00-5	Methyltrichlorosilane	75-79-6	1250	Flam liquid 2 STOT single 3 (respiratory) Skin irritant 2 Eye irritant 2A	Flammable Irritant	Danger	H225 H335 H315 H319	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P312; P321; P362; P304+P340; P312; P303+P361+P353; P332+P313; P321; P363; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P501	
—	N-Methyl-ε-caprolactam	2556-73-2	3267	Acute tox 4 (oral) Acute tox 4 (dermal) Reprod tox 1B Eye damage 1	Corrosion Health haz	Danger	H302 H312 H360 H318	P201; P202; P264; P270; P281; P301+P312; P330; P302+P352; P312; P322; P363; P308+P313; P305+P351+P338; P310; P405; P501	
606-009-00-1	MIBK, see Mesityl oxide	141-79-7							
613-028-00-9	Morpholine, conc ≥ 1 % < 10 %, by, mass	110-91-8	—	Skin irritant 3	None	Warning	H316	P332+P313	Not hazardous for transport.
613-028-00-9	Morpholine, conc ≥ 10 % < 25 %, by mass	110-91-8	—	Skin irritant 2	Exclamation mark	Warning	H315	P264; P280; P302+P352; P321; P332+P313; P362	Not hazardous for transport.

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
613-028-00-9	Morpholine, concentration > 25%, by mass	110-91-8	2054	Flam liquid 3 Acute tox 4 (inhalation) Acute tox 4 (dermal) Acute tox 4 (oral) Skin corr 1B	Corrosion Flame	Danger	H226 H332 H311 H302 H314	P210; P233; P240; P241; P242; P243; P260; P261; P264; P270; P271; P280; P304+P340; P312; P321; P301+P330+P331; P303+P361+P353; P322; P363; P305+P351+P338; P370+P378; P403+P235; P405; P501	
613-041-00-X	Morpholine-4-carbonyl chloride	15159-40-7	—	Carcinogen 2 Eye irritant 2A Skin irritant 2	Health haz Exclamation mark	Warning	H351 H319 H315	P201; P202; P264; P280; P281; P321; P302+P352; P362; P332+P313; P308+P313; P305+P351+P338; P337+P313; P405; P501	Not hazardous for transport.
601-005-00-6	Neopentane, see 2,2-Dimethylpropane	463-82-1							

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
028-001-00-1	Nickel tetracarbonyl	13463-39-3	1259	Flam liquid 2 Carcinogen 2 Reprod tox 1B Acute tox 2 (inhalation) Acute aquat 1 Chron aquat 1	Flame Health haz Toxic	Danger	H225 H351 H360 H330 H400 H410	P201; P202; P210; P233; P240; P241; P242; P243; P260; P271; P281; P284; P304+P340; P310; P320; P308+P313; P303+P361+P353; P370+P378; P273; P391; P403+P233; P403+P235;P405; P501	
007-004-00-1	Nitric acid, concentration > 70 % nitric acid, by mass	7697-37-2	2031	Oxid liquid 1 Skin corr 1A	Flame over circle Corrosion	Danger	H271 H314	P102; P210; P220; P221; P260; P264; P280; P283; P306+P360; P370+P378; P301+P330+P331; P303+P361+P353; P363; P304+P340; P310; P321; P305+P351+P338; P371+P380+P375; P405; P501	

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
007-004-00-1	Nitric acid, concentration $\leq$ 70 % nitric acid, by mass	7697-37-2	2031	Oxid liquid 2 Skin corr 1A	Flame over circle Corrosion	Danger	H272 H314	P102; P210; P220; P221; P260; P264; P280; P370+P378; P301+P361+P353; P304+P340; P310; P321; P303+P361+P353; P363; P305+P351+P338; P405; P501	
609-003-00-7	Nitrobenzene	98-95-3	1662	Carcinogen 2 Reprod tox 2 Acute tox 2 (oral) STOT repeat 1	Health haz Toxic	Danger	H351 H361 H300 H372	P201; P202; P260; P264; P270; P280; P281; P404+P340; P312; P321; P301+P310; P321; P330; P405; P501	
603-037-01-3	Nitrocellulose, with > 12,6 % nitrogen, by mass	—	0340 0341 0342 0343	Explosive 1.1	Exploding bomb	Danger	H201	P201; P230; P240; P250; P280; P370+P380; P372; P373; P401; P501	Contact the Chief Inspector of Explosives of the SA Police Service for allocation of the applicable UN number.

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-037-00-6	Nitrocellulose, with $\leq 12,6$ % nitrogen, by mass	—	2059 2555 2556 2257 3270	Flam liquid 3 Carcinogen 2 Mutagen 2 STOT single 3 (respiratory) Skin sens 1 Chron aquatic 3	Flame Health haz Environ haz	Warning	H226 H351 H341 H335 H317 H412	P201; P202; P210; P233; P240; P241; P242; P243; P261; P271; P272; P281; P304+P340; P312; P308+P313; P303+P361+P353; P333+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	The classification depends on the plasticizer and pigment added to the nitrocellulose.
609-035-00-1	Nitroethane	79-24-3	2842	Flam liquid 3 Acute tox 4 (oral)	Flame Exclamation mark	Warning	H226 H302	P210; P233; P240; P241; P242; P243; P264; P270; P280; P301+P312; P330; P303+P361+P353; P370+P378; P403+P235; P501	
603-034-00-X	Nitroglycerine	78-11-5	—	Unstable expl Acute tox 1 (dermal) STOT repeat 2 Chron aquatic 2	Exploding bomb Environ haz	Danger	H200 H310 H373 H411	P201; P202; P281; P372; P373; P380; P262; P264; P270; P280; P302+P350; P310; P322; P362; P273; P391; P401; P405; P501	Pure nitroglycerin is an unstable explosive and too dangerous to be transported. Therefore, no UN number has been assigned.

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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-034-00-X	Nitroglycerine solution in alcohol with > 1 % but ≤ 10 % nitroglycerine, by mass	55-63-0	0144	Explosive 1.1 STOT repeat 2 Chron aquat 2	Exploding bomb Health haz Environ haz	Danger	H201 H373 H411	P201; P230; P240; P250; P280; P260; P280; P370+P380; P314; P273; P391; P401; P501	Nitroglycerine mixed with liquids, for example alcohol, is classified as a flammable liquid. Nitroglycerine mixed with solids is classified as a flammable solid. See annex B.2 of SANS 10228.
603-034-00-X	Nitroglycerine with ≥ 40% non-volatile water-insoluble phlegmatizer, by mass	55-63-0	0143	Explosive 1.1 Acute tox 1 (dermal) Chron aquatic 2	Exploding bomb Toxic Environ haz	Danger	H201 H330 H373 H411	P201; P230; P240; P250; P280; P370+P380; P372; P373; P260; P262; P264; P270; P310; P321; P322; P302+P350; P310; P322; P361; P33; P273; P391; P401; P405; P501	Nitroglycerine mixed with liquids, for example alcohol, is classified as a flammable liquid. Nitroglycerine mixed with solids is classified as a flammable solid. See annex B.2 of SANS 10228.  A phlegmatizer renders an explosive insensitive, or less sensitive, to heat, shock, impact, percussion or friction.
603-036-00-0	Nitromannite, see Mannitol hexanitrate	15825-70-4							

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
609-036-00-7	Nitromethane	75-52-5	1261	Flam liquid 3 Acute tox 4 (oral)	Flame Exclamation mark	Warning	H226 H302	P210; P233; P240; P241; P242; P243; P264; P270; P280; P301+P312; P330; P303+P361+P353; P370+P378; P403+P235; P501	
609-001-00-6	1-Nitropropane	108-03-2	2608	Flam liquid 3 Acute tox 4 (inhalation) Acute tox 4 (oral) Eye irritant 2A	Flame Exclamation mark	Warning	H226 H332 H302 H319	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P301+P312; P330; P304+P340; P312; P303+P361+P353; P312; P322; P363; P305+P351+P338; P337+P313; P370+P378; P403+P235; P501	
609-002-00-1	2-Nitropropane	79-46-9	2608	Flam liquid 3 Carcinogen 1B Acute tox 4 (inhalation) Acute tox 4 (oral)	Health haz Flame	Danger	H226 H350 H332 H302	P201; P202; P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P281; P308+P313; P304+P340; P312; P301+P312; P330; P303+P361+P353; P370+P378; P403+P235; P405; P501	



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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
014-018-00-1	Octamethylcyclotetrasiloxane	556-67-2	–	Reprod tox 2 Chron aquatic 4	Health haz Environ haz	Warning	H361 H413	P201; P202; P273; P281; P308+P313; P405; P501	Not hazardous for transport.
601-009-00-8	Octane isomer, with the exception of those specified elsewhere in this list	111-65-9	1262	Flam liquid 2 Aspirate haz 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
016-019-00-2	Oleum ... % SO <sub>3</sub> , see Sulfuric acid, fuming	–							Indicate the percentage of sulphur trioxide (SO <sub>3</sub> ) on the label.
608-011-00-8	Oxalonnitrile, see Cyanogen	460-19-5							
603-023-00-X	Oxirane, see Ethylene oxide	75-21-8							
603-046-00-5	Oxybis(chloromethane), see Bis (chloromethyl) ether	542-88-1							

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
015-046-00-7	Oxydemeton-methyl (ISO common name)	32809-16-8	2783 2784 3017 3018	Acute tox 3 (oral) Eye irritant 2A Skin sens 1 Acute aquatic 1	Toxic Environ haz	Warning	H301 H319 H317 H400	P102; P261; P264; P270; P272; P273; P391; P280; P363; P301+P310; P321; P330; P302+P352; P333+P313; P321; P363; P305+P351+P338; P337+P313; P405; P501	Oxydemeton-methyl is an organo phosphorus pesticide. For transport, different UN numbers are assigned to a pesticide depending its physical form and flammability. See annex B.2 of SANS 10228.
603-033-01-1	Oxydiethylene dinitrate with not less than 25 % phlegmatizer, see Digol dinitrate with not less than 25 % phlegmatizer	693-21-0							
603-033-00-4	Oxydiethylene dinitrate, see Digol dinitrate	693-21-0							
008-001-00-8	Oxygen	7782-44-7	1072	Oxid gas 1	Flame over circle	Danger	H270	P220; P244; P370+P376; P403	
605-004-00-1	Paraldehyde	123-63-7	1264	Flam liquid 3 Acute tox 3 (inhalation)	Toxic Flame	Danger	H226 H331	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P311; P321; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	Synonyms of paraldehyde are 2,4,6-trimethyl-1,3,5-trioxane, Acetaldehyde trimer and Paracetaldehyde. Paraldehyde has a closed-cup flashpoint of 27°C.

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
649-404-00-4	Paraffin, illuminating, see Kerosene	8008-20-6							
015-035-00-7	Parathion-methyl (ISO common name)	298-00-0	3017 3278	Flam liquid 3 Acute tox 2 (oral) Acute tox 3 (dermal) STOT repeat 2 Acute aquat 1 Chron aquat 1	Toxic Flame Health haz	Danger	H226 H300 H311 H373 H400 H410	P102; P210; P233; P240; P241; P242; P243; P260; P264; P270;; P280; P273; P391; P301+P310; P321; P330; P302+P352; P303+P361+P353; P314; P361; P363; P370+P378; P403+P235; P405; P501	Parathion-methyl is an organophosphorus pesticide. Different UN numbers are assigned to pesticides depending on the physical form and flammability.
602-074-00-5	Pentachlorobenzene	608-93-5	1325	Flam solid 2 Acute tox 4 (oral) Acute aquat 1 Chron aquat 1	Flame Environ haz	Warning	H228 H302 H400 H410	P210; P240; P241; P264; P270; P280; P301+P312; P330; P273; P391; P370+P378; P501	
603-035-00-5	Pentaerythritol tetranitrate (PETN)	78-11-5	—	Unstable expl	Explosive bomb	Danger	H200	P201; P202; P281; P372; P373; P380; P401; P501	Dry PETN is an unstable explosive and too dangerous to be transported. Therefore, no UN number has been assigned.
603-035-00-5	Pentaerythritol tetranitrate with ≥ 15 % phlegmatizer, by mass	78-11-5	0150	Explosive 1.1	Exploding bomb	Danger	H201	P201; P230; P240; P250; P280; P370+P380; P372; P373; P401; P501	A phlegmatizer renders an explosive insensitive, or less sensitive, to heat, shock, impact, percussion or friction.

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### Annex A (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-035-00-5	Pentaerythritol tetranitrate with $\geq 25$ % water, by mass	78-11-5	0150	Explosive 1.1	Exploding bomb	Danger	H201	P201; P230; P240; P250; P280; P370+P380; P372; P373; P401; P501	
603-035-00-5	Pentaerythritol tetranitrate with $\geq 7$ % wax, by mass	78-11-5	0411	Explosive 1.1	Exploding bomb	Danger	H201	P201; P230; P240; P250; P280; P370+P380; P372; P373; P401; P501	
603-035-00-5	Pentaerythritol tetranitrate with with $> 10$ % but $\leq 20$ % PETN, by mass	78-11-5	3344	Flam solid 1	Flame	Danger	H228	P210; P240; P241; P280; P370+P378	
606-006-00-5	Pentan-3-one, see Diethyl ketone	96-22-0	1156						
601-006-00-1	n-Pentane	109-66-0	1265	Flam liquid 2 Aspirate tox 1 STOT single 3 (narcotic) Chron aquat 2	Flame Health haz Environ haz	Danger	H225 H304 H336 H411	P210; P233; P240; P241; P242; P243; P261; P271; P280; P301+P310; P331; P304+P340; P312; P303+P361+P353; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	n-Pentane has a closed-cup boiling point of 36°C.  Other isomers of pentane are classified in category 1.
606-029-00-0	2,4-Pentanedione, see Acetylacetone	123-54-6							

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**Annex A** (continued)

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Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-007-00-2	tert-Pentanol	75-85-4	1105	Flam liquid 2 Acute tox 4 (inhalation) STOT single 3 (respiratory) Skin irritant 2	Flame Exclamation mark	Danger	H225 H332 H335 H315	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P233; P403+P235; P501	
603-006-00-7	Pentanol isomers, with the exception of those specified elsewhere in this list.	30899-19-5	1105	Flam liquid 3 Acute tox 4 (inhalation) STOT single 3 (respiratory)	Flame Exclamation mark	Warning	H226 H332 H335	P210; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P233; P403+P235; P501	
607-130-00-2	Pentyl acetate	628-63-7	1104	Flam liquid 3 Skin irritant 2A Eye irritant 2A	Flame Exclamation mark	Warning	H226 H315 H319	P210; P233; P240; P241; P242; P243; P264; P280; P303+P361+P353; P332+P313; P321; P362; P305+P351+P338; P337+P313; P370+P378; P403+P235; P501	"Amyl acetate" is the synonym commonly used.
602-022-00-1	Pentyl chloride, see Amyl chloride	543-59-9							

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-018-01-0	Pentyl formate	638-49-3	1109	Flam liquid 3 Skin irritant 2	Flame Exclamation mark	Warning	H226 H315	P210; P233; P240; P241; P242; P243; P264; P280; P303+P361+P353; P332+P313; P370+P378; P403+P235; P501	"Amyl formate" is the synonym commonly used.
007-020-00-9	Pentyl nitrite	463-04-7	1113	Flam liquid 2 Acute tox 4 (inhalation) Acute tox 4 (oral)	Flame Exclamation mark	Danger	H225 H332 H302	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P301+P312; P330; P304+P340; P312; P303+P361+P353; P370+P378; P403+P235; P501	"Amyl nitrite" is the synonym commonly used.
607-131-00-8	Pentyl propionate	624-54-4	1993	Flam liquid 3	Flame	Warning	H226	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378; P403+P235; P501	"Amyl propionate" is the synonym commonly used.
607-094-00-8	Peracetic acid, see Peroxyacetic acid	79-21-0							

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
017-006-00-4	Perchloric acid, conc > 50 % ≤ 72 %, by mass	7601-90-3	1873	Oxid Liquid 1 Skin corr 1A	Flame over circle Corrosion	Danger	H271 H314	P210; P220; P221; P260; P262; P264; P280; P283;; P304+P340; P310; P306+P360; P370+P378; P301+P330+P331; P303+P361+P353; P321; P363; P305+P351+P338; P371+P380+P375; P405; P501	A powerful oxidizing agent. Indicate the concentration of perchloric acid (% by mass) on the label.  <b>KEEP AWAY FROM INCOMPATIBLE MATERIAL, FOR EXAMPLE, ORGANIC SUBSTANCES.</b>
017-006-00-4	Perchloric acid, conc >10 % ≤ 50 %, by mass	7601-90-3	1802	Skin corr 1B Oxid liquid 2	Corrosion Flame over circle	Danger	H272 H314	P210; P220; P221; P260; P264; P280; P304+P340; P310; P321; P370+P378; P301+P330+P310; P303+P361+P353; P363; P305+P351+P338; P405; P501	A powerful oxidizing agent. Indicate the concentration of perchloric acid (% by mass) on the label.  <b>KEEP AWAY FROM INCOMPATIBLE MATERIAL, FOR EXAMPLE, ORGANIC SUBSTANCES.</b>
017-006-00-4	Perchloric acid, conc >1 % ≤ 10 %, by mass	7601-90-3	1802	Oxid liquid 3 Skin irritant 2	Flame over circle Exclamation mark	Warning	H272 H315	P210; P220; P221; P264; P280; P321; P302+P352; P362; P332+P313; P370+P378; P501	Indicate the concentration of perchloric acid (% by mass) on the label.

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-094-00-8	Peroxyacetic acid (stabilized), concentration $\geq 5\%$ and $\leq 43\%$ , by mass	79-21-0	3103 3105 3107 3109	Flam liquid 3 Org peroxide C/D/E/F Skin corr 1A Acute aquatic 1	Flame Corrosive Environ haz	Danger	H226 H242 H314 H400	P210; P220; P233; P234; P240; P241; P242; P243; P260; P264; P270; P271; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P370+P380+P375; P370+P378; P273; P391; P403+P235; P405; P411+P235; P410; P420; P501	A powerful oxidizing agent. <b>KEEP AWAY FROM ORGANIC MATERIAL.</b>  The type of peroxy-acetic acid (C/D/E/F) depends on the concentration of the acid.  Indicate the concentration of peroxy-acetic acid (% , by mass) on the label.
603-035-00-5	PETN, see Pentaerythritol tetranitrate	78-11-5							
649-202-00-6	Petroleum gases, liquefied, C <sub>3</sub> to C <sub>7</sub> fraction and boiling point in the range of approximately -40 °C to 80 °C.	68476-85-7	1075	Flam gas 1 Carcinogen 1A Mutagen 1B	Flame Health haz	Danger	H220 H350 H340	P201; P202; P210; P281; P377; P381; P308+P313; P403; P405; P501	The petroleum gas is a complex combination of hydrocarbons produced by the distillation of crude oil. The gas consists of hydrocarbons having carbon numbers predominantly in the range of C <sub>3</sub> to C <sub>7</sub> and boiling points in the range of approximately -40 °C to 80 °C.



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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
649-117-00-4	Petroleum gases, liquefied, sweetened, C <sub>4</sub> fraction	92045-80-2	1075	Flam gas 1 Carcinogen 1A Mutagen 1B	Flame Health haz	Danger	H220 H350 H340	P201; P202; P210; P281; P377; P381; P308+P313; P403; P405; P501	The petroleum gas is a complex combination of hydrocarbons obtained by subjecting liquefied petroleum gas to a sweetening process to oxidize mercaptans, or to remove acidic impurities. The gas consists predominantly of C <sub>4</sub> saturated and unsaturated hydrocarbons.
601-027-00-6	2-Phenylpropene	98-83-9	2303	Flam liq 3 Eye irritant 2A STOT single 3 Chron aquatic 2	Flame Exclamation mark Environ haz	Warning	H226 H319 H335 H411	P210; P233; P240; P241; P242; P243; P264; P280; P303+P361+P353; P304+P340; P312; P370+P378; P273; P391; P305+P351+P338; P337+P313; P403+P233; P403+P235; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
015-101-00-5	Phosmet (ISO common name)	732-11-6	2783 2784 3017 3018	Acute tox 3 (oral) Acute tox 4 (inhalation) Acute aquatic 1	Toxic Environ haz	Danger	H301 H332 H400	P102; P261; P264; P270; P271; P321; P301+P310; P330; P321; P273; P391; P304+P340; P312; P405; P501	Phosmet is an organophosphorus pesticide For transport, different UN numbers are assigned to a pesticide depending its physical form and flammability. See annex B.2 of SANS 10228.
015-011-00-6	Phosphoric acid, anhydrous	7664-38-2	1807	Skin corr 1A Eye damage 1	Corrosion	Danger	H314 H318	P260; P262; P264; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P310; P405; P501	
015-011-00-6	Phosphoric acid, solid	7664-38-2	3453	Skin corr 1C Eye damage 1	Corrosion	Danger	H314 H318	P102; P260; P262; P264; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P310; P405; P501	Indicate the percentage of phosphoric acid on the label.

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
015-011-00-6	Phosphoric acid, solution, concentration $\geq 25\%$ acid, by mass	7664-38-2	1805	Skin corr 1C Eye damage 1	Corrosion	Danger	H314 H318	P102; P260; P262; P264; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P310; P405; P501	Indicate the percentage of phosphoric acid on the label.
015-011-00-6	Phosphoric acid, solution, concentration $\geq 10\% < 25\%$ , by mass	7664-38-2	—	Skin irrit 2 Eye irrit 2A	Exclamation mark	Warning	H315 H319	P102; P264; P280; P321; P302+P352; P332+P313; P362; P305+P351+P338; P337+P313	Indicate the percentage of phosphoric acid on the label.
015-008-00-X	Phosphorus pentachloride	10026-13-8	1806	Acute tox 2 (inhalation) Acute tox 4 (oral) STOT repeat 2 Skin corr 1B	Corrosion Toxic Health haz	Danger	H330 H302 H373 H314	P260; P262; P264; P270; P271; P280; P284; P314; P363; P304+P340; P310; P320; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P403+P233; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
015-104-00-1	Phosphorus pentasulfide (free from red and white phosphorus)	1314-80-3	1340	Flam solid 2 Acute tox 4 (inhal) Acute tox 4 (oral) Acute aquat 1	Flame Environ haz	Danger	H228 H332 H302 H400	P210; P240; P241; P261; P264; P270; P271; P280; P273; P391; P301+P312; P330; P304+P340; P312; P370+P378; P501	
015-011-00-6	Phosphorus pentoxide, see Phosphoric acid, anhydrous	7664-38-2							
015-012-00-1	Phosphorus sesquisulfide (free from red and white phosphorus)	1314-85-8	1341	Flam solid 2 Acute tox 4 (oral) Acute aquat 1	Flame Environ haz	Danger	H228 H302 H400	Nor	
015-103-00-6	Phosphorus tribromide	7789-60-8	1808	Skin corr 1B STOT single 3 (respiratory)	Corrosion Exclamation mark	Danger	H314 H335	P260; P264; P271; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P321; P305+P351+P338; P403+P233; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
015-007-00-4	Phosphorus trichloride	7719-12-2	1809	Acute tox 2 (inhalation) Acute tox 2 (oral) STOT repeat 2 Skin corr 1A	Corrosion Toxic Health haz	Danger	H330 H300 H373 H314	P260; P262; P264; P270; P271; P280; P284; P304+P340; P310; P320; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P403+P233; P405; P501	
015-002-00-7	Phosphorus, red	7723-14-0	3178	Flam solid 1 Chron aquat 3	Flame Environ haz	Danger	H228 H412	P210; P240; P241; P273; P280; P391; P370+P378; P501	
015-001-00-1	Phosphorus, white	12185-10-3	1381	Pyro solid 1 Acute tox 2 (inhalation) Acute tox 2 (oral) Skin corr 1A Acute aquatic 1	Flame Corrosion Environ haz	Danger	H250 H330 H300 H314 H400	P210; P222; P260; P262 P264; P270; P271; P280; P284; P335+P334; P273; P391; P304+P340; P310; P320; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P370+P378; P403+P233; P422; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
015-009-00-5	Phosphoryl trichloride	10025-87-3	1810	Acute tox 2 (inhalation) STOT repeat 1 Skin corr 1A	Corrosion Toxic Health haz	Danger	H330 H302 H372 H314	P260; P262; P264; P270; P271; P280; P284; P321; P304+P340; P310; P320; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P403+P233; P405; P501	
613-037-00-8	4-Picoline, see 4-Methylpyridine	108-89-4							
613-036-00-2	2-Picoline, see 2-Methylpyridine	109-06-8							
612-034-00-9	Picramic acid, see 2-Amino-4,6-dinitrophenol								
609-010-00-5	Picric acid salts	—	—	Unstable expl Acute tox 3 (inhalation) Acute tox 3 (dermal) Acute tox 3 (oral)	Exploding bomb Toxic	Danger	H200 H331 H311 H301	P201; P202; P281; P372; P373; P380; P260; P264; P270; P271; P280; P284; P301+P310; P321; P330; P302+P352; P312; P322; P361 P363; P304+P340; P311; P321; P370+P380; P403+P233; P401; P405; P501	Ammonium picrate is classified as an explosive of Division 1.1 and H201. All other salts of picric acid, including the heavy metal salts, are unstable (H200). UN Unstable explosives are too dangerous to be transported. Therefore, no UN number has been assigned.

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
609-009-00-X	Picric acid, see 2,4,6-Trinitrophenol	88-89-1							
610-004-00-X	Picryl chloride	88-88-0	0155	Explosive 1.1 Acute tox 1 (inhalation) Acute aquatic 1 Chron aquatic 1	Exploding bomb Toxic Environ haz	Danger	H201 H330 H400 H410	P201; P230; P240; P250; P280; P370+P380; P372; P373; P260; P271; P284; P304+P340; P310; P320; P370+P380; P273; P391; P401; P403+P233; P405; P501	
613-027-00-3	Piperidine	110-89-4	2401	Flam liquid 2 Acute tox 3 (inhalation) Acute tox 3 (dermal) Skin corr 1B	Corrosion Flame Toxic	Danger	H225 H331 H311 H314	P210; P233; P240; P241; P242; P243; P260; P262; P264; P271; P280; P284; P304+P340; P312; P321; P301+P330+P331; P310; P303+P361+P353; P363; P305+P351+P338; P370+P378; P403+P233; P403+P235; P405; P501	Reacts vigorously with oxidizing material.

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
648-055-00-5	Pitch, coal tar, high-temperature	65996-93-2	3257	Carcinogen 1A Mutagen 1B Reprod tox 1B Eye damage 1 Skin sens 1	Health haz Corrosion	Danger	H350 H340 H360 H318 H317	P201; P202; P261; P272; P281; P302+P352; P333+P313; P321; P363; P308+P313; P305+P351+P338; P310; P405; P501	
019-001-00-2	Potassium	7440-09-7	2257	Water-react 1 Skin corr 1B	Flame Corrosion	Danger	H260 H314	P223; P260; P262; P264; P280; P304+P340; P310; P321; P231+P232; P335+P334; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P370+P378; P402+P404; P405; P501	
035-003-00-6	Potassium bromate	7758-01-2	1484	Oxid solid 1 Carcinogen 1B Acute tox 3 (oral)	Flame over circle Health haz Toxic	Danger	H271 H350 H301	P201; P202; P210; P220; P221; P264; P270; P280; P283; P301+P310; P321; P330; P306+P360; P308+P313; P371+P380+P375; P370+P378; P405; P501	



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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
017-004-00-3	Potassium chlorate	3811-04-9	1485	Oxid solid 1 Chron aquat 2	Flame over circle Environ haz	Danger	H271 H411	P210; P220; P221; P280; P283; P306+P360; P273; P391; P371+P380+P375; P370+P378; P501	A powerful oxidizer and vey reactive material. May explode on heating. It has been the cause of many industrial explosions.
613-030-00-X	Potassium dichloroisocyanurate	2244-21-5	2465	Oxid solid 2 Acute tox 4 (oral) Eye irrit 2A Skin irrit 2 STOT single 3 (respiratory) Acute aquat 1 Chron aquat 1	Flame over circle Environ haz	Danger	H272 H302 H319 H315 H335 H400 H410	P210; P220; P221; P261; P264; P270; P271; P280; P273; P391; P301+P312; P330; P302+P352; P321; P332+P313; P362; P304+P340; P312; P305+P351+P338; P337+P313; P370+P378; P403+P233; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
024-002-00-6	Potassium dichromate	7778-50-9	3085	Oxid solid 2 Carcinogen 1B Mutagen 1B Reprod tox 1B Acute tox 3 (oral) Acute tox 2 (inhalation) STOT repeat 1 Skin corr 1B Resp sens 1 Acute aquatic 1 Chron aquatic 1	Flame over circle Corrosion Health haz	Danger	H272 H350 H340 H360 H301 H312 H372 H314 H334 H400 H410	P201; P202; P210; P220; P221; P260; P262; P264; P270; P271; P272; P280; P285; P273; P391; P304+P340; P320; P342+P311 P301+P330+P331; P303+P361+P353; P333+P313; P312; P322; P363; P305+P351+P338; P370+P378; P403+P233; P405; P501	
603-041-00-8	Potassium ethoxide, see Potassium ethylate	917-58-8							
603-041-00-8	Potassium ethylate	917-58-8	2925	Flam solid 1 Skin corr 1B	Flame Corrosion	Danger	H228 H314	P210; P240; P241; P260; P262; P264; P280; P304+P340; P310; P321; P301+P330+P331; P310; P303+P361+P353; P363; P305+P351+P338; P370+P378; P405; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
009-008-00-9	Potassium hydrogen difluoride solution, concentration $\geq 1\%$ < 10 %, by mass	7789-29-9	3421	Acute tox 3 (oral) Skin corr 1C Eye corr 1	Corrosion Toxic	Danger	H301 H314 H318	P260; P262; P264; P270; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P310; P363; P405; P501	
009-008-00-9	Potassium hydrogen difluoride solution, $\geq 10\%$ , by mass	7789-29-9	3421	Acute tox 2 (oral) Skin corr 1B Eye corr 1	Corrosion Toxic	Danger	H300 H314 H318	P260; P262; P264; P270; P280; P321; P363; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P310; P405; P501	
009-008-00-9	Potassium hydrogen difluoride solution, concentration $\geq 0,1\%$ < 1 %, by mass	7789-29-9	—	Skin irrit 2 Eye irrit 2A	Exclamation mark	Warning	H315 H319	P264; P280; P321; P302+P352; P321; P332+P313; P362; P305+P351+P338; P337+P313; P337+P313	Not hazardous for transport.

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
009-008-00-9	Potassium hydrogen difluoride, solid	7789-29-9	1811	Acute tox 2 (oral) Skin corr 1B	Corrosion Toxic	Danger	H300 H314	P260; P262; P264; P270; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P405; P501	
019-002-00-8	Potassium hydroxide solution, concentration $\geq 0,5\%$ < 2 %, by mass	1310-58-3	–	Skin irritant 2 Eye irritant 2A	Exclamation mark	Warning	H315 H319	P102; P264; P280; P321; P302+P352; P321; P332+P313; P362; P305+P351+P338; P337+P313	Not hazardous for transport. Indicate the percentage of potassium hydroxide on the label.
019-002-00-8	Potassium hydroxide solution, concentration $\geq 2\%$ < 25 %, by mass	1310-58-3	1814	Skin corr 1B Eye damage 1	Corrosion	Danger	H314 H318	P102; P260; P262; P264; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P310; P310; P405; P501	Indicate the percentage of potassium hydroxide on the label.

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
019-002-00-8	Potassium hydroxide solution, concentration $\geq 25$ %, by mass	1310-58-3	1814	Acute tox 4 (oral) Skin corr 1A Eye damage 1A	Corrosion	Danger	H302 H314 H318	P102; P260; P262; P264; P270; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P310; P405; P501	Indicate the percentage of potassium hydroxide on the label.
019-002-00-8	Potassium hydroxide, solid	1310-58-3	1813	Acute tox 3 (oral) Skin corr 1A Eye damage 1	Corrosion	Danger	H301 H314 H318	P102; P260; P262; P264; P270; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P310; P405; P501	
603-040-00-2	Potassium methoxide, see Potassium methylate	865-33-8							
603-040-00-2	Potassium methylate	865-33-8	2925	Flam solid 1 Skin corr 1B	Flame Corrosion	Danger	H228 H314	P210; P240; P241; P260; P262; P264; P280; P304+P340; P310; P321; P370+P378; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P405; P501	Ignites in moist air. Reacts with water to form methyl alcohol and potassium hydroxide.

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
007-011-00-X	Potassium nitrite	7758-09-0	1488	Oxid solid 2 Acute tox 3 (oral) Acute aquat 1	Flamle over circle Toxic Environ haz	Danger	H272 H301 H400	P210; P220; P221; P264; P270; P280; P301+P310; P321; P330; P370+P378; P273; P391; P405; P501	
017-008-00-5	Potassium perchlorate	7778-74-7	1489	Oxid solid 1 Acute tox 4 (oral)	Flame over circle	Danger	H271 H302	P210; P220; P221; P264; P270; P280; P283; P306+P360; P371+P380+P375; P370+P378; P301+P310; P330; P501	
025-002-00-9	Potassium permanganate	7722-64-7	1490	Oxid solid 2 Acute tox 4 (oral) Acute aquat 1 Chron aquat 1	Flame over circle Environ haz	Danger	H272 H302 H400 H410	P102; P210; P220; P221; P264; P270; P280; P370+P378; P321; P273; P391; P301+P312; P330; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
016-061-00-1	Potassium persulfate	7727-21-1	1492	Oxid solid 3 Eye irritant 2A Skin irritant 2 STOT single 3 (respiratory) Resp sens 1	Flame over circle Exclamation mark	Warning	H272 H319 H315 H335 H334	P210; P220; P221; P261; P264; P271; P272; P280; P285; P370+P378; P304+P340; P312; P342+P311; P302+P352; P321; P332+P313; P362; P305+P351+P338; P337+P313; P261; P405; P501	
613-030-00-X	Potassium troclosene, see Potassium dichloroisocyanurate	2244-21-5							
613-030-00-X	Potassium troclosene, see Sodium dichloroisocyanurate	2893-78-9							
009-017-00-8	Potassium- $\mu$ -fluoro-bis(triethyl-aluminium)	12091-08-6	1325	Flam solid 1 Water-react 1 Skin corr 1A Acute tox 4 (inhalation)	Flame Corrosion	Danger	H228 H260 H314 H332	P210; P223; P240; P241; P260; P261; P262; P264; P271; P280; P304+P340; P310; P321; P231+P232; P370+P378; P301+P310+P331; P335+P334; P303+P361+P353; P363; P305+P351+P338; P402+P404; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
–	Procymidone (ISO common name)	32809-16-8	3077	Reprod tox 1B Carcinogen 2 Chron aquatic 2	Health haz	Danger	H360 H351 H411	P102; P201; P202; P273; P391; P281; P308+P313; P405; P501	Procymidone is a dicarboximide used as a fungicide.
603-038-00-1	Prop-2-en-1-yl 2,3-epoxypropyl ether, see Allyl glycidyl ether	106-92-3							
603-078-00-X	Prop-2-yn-1-ol, see Propargyl alcohol	107-19-7							
603-003-00-0	Propan-1-ol, see n-Propanol	71-23-8							
603-117-00-0	Propan-2-ol, see Isopropanol	67-63-0							
606-001-00-8	Propan-2-one, see Acetone	67-64-1							
605-018-00-8	Propanal, see Propionaldehyde	123-38-6							
601-003-00-5	Propane	74-98-6	1978	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	
603-003-00-0	n-Propanol	71-23-8	1274	Flam liquid 2 Eye damage 1 STOT single 3 (narcotic)	Flame Corrosion	Danger	H225 H318 H336	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P305+P351+P338; P310; P370+P378; P403+P233; P403+P235; P405; P501	
606-001-00-8	Propanone, see Acetone	67-64-1							

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-078-00-X	Propargyl alcohol	107-19-7	1986	Flam liquid 3 Acute tox 3 (oral) Acute tox 3 (dermal) Acute tox 3 (inhalation) Chron aquat 2	Toxic Flame Environ haz	Danger	H226 H301 H311 H331 H411	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P273; P391; P301+P310; P321; P330; P304+P340; P311; P321; P303+P361+P353; P312; P332; P363; P370+P378; P403+P233; P403+P235; P405; P501	
601-011-00-9	Propene, see Propylene	115-07-1							
605-018-00-8	Propionaldehyde	123-38-6	1275	Flam liquid 2 Skin irritant 2 Eye irritant 2A STOT single 3 (respiratory)	Flame Exclamation mark	Danger	H225 H315 H319 H335	P210; P233; P240; P241; P242; P243; P264; P280; P304+P340; P312; P303+P361+P353; P321; P332+P313; P362; P305+P351+P338; P337+P313; P370+P378; P403+P233; P405; P403+P235; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-093-00-2	Propionyl chloride	79-03-8	1815	Flam liquid 2 Skin corr 1B	Flame Corrosion	Danger	H225 H314	P210; P233; P240; P241; P242; P243; P260; P262; P264; P280; P301+P330+P331; P304+P340; P310; P321; P303+P361+P353; P363; P305+P351+P338; P370+P378; P403+P235; P405; P501	Can react vigorously with oxidizing material. Reacts with water and steam to produce toxic and corrosive fumes.
607-024-00-6	n-Propyl acetate	109-60-4	1276	Flam liquid 2 Eye irritant 2A STOT single 3 (narcotic)	Flame Exclamation mark	Danger	H225 H319 H336	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P405; P501	
602-019-00-5	n-Propyl bromide, see 1-Bromopropane	106-94-5							

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-142-00-8	Propyl chloroformate	109-61-5	2740	Flam liquid 2 Acute tox 3 (inhalation) Skin corr 1B	Corrosion Flame	Danger	H225 H331 H314	P210; P233; P240; P241; P242; P243; P260; P264; P271; P280; P363; P304+P340; P310; P320; P301+P310+P331; P303+P361+P353; P363; P305+P351+P338; P370+P378; P403+P233; P403+P235; P405; P501	Propyl chloroformate has a closed-cup flashpoint of 16°C
607-016-00-2	Propyl formate	110-74-7	1281	Flam liquid 2 Eye irritant 2A STOT single 3 (respiratory) STOT single 3 (narcotic)	Flame Exclamation mark	Danger	H225 H319 H335 H336	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P303+P361+P353; P305+P351+P338; P337+P313; P370+P378; P403+P233; P405; P403+P235; P501	
607-030-00-9	Propyl propionate	106-36-5	1914	Flam liquid 3 Acute tox 4 (inhalation)	Flame Exclamation mark	Danger	H226 H332	P210; P233; P240; P241; P242; P243; P261; P271; P280; P304+P340; P312; P303+P361+P353; P370+P378; P403+P235; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-024-00-X	Propylbenzene	103-65-1	2364	Flam liquid 3 Aspirate haz 1 STOT single 3 (respiratory) Chron aquatic 2	Flame Health haz Environ haz	Danger	H226 H304 H335 H411	P210; P233; P240; P241; P242; P243; P261; P271; P280; P301+P310; P331; P304+P340; P312; P303+P361+P353; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
601-011-00-9	Propylene	115-07-1	1077	Flam gas 1	Flame	Danger	H220	P210; P377; P381; P403	
602-020-00-0	Propylene dichloride	78-87-5	1279	Flam liquid 2 Acute tox 4 (inhalation) Acute tox 4 (oral)	Flame Exclamation mark	Danger	H225 H332 H302	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P301+P312; P330; P321; P304+P340; P312; P303+P361+P353; P370+P378; P403+P235; P501	
602-020-00-0	Propylene dichloride, see 1,2-Dichloro-propane	78-87-5							
603-064-00-3	Propylene glycol methyl ether	107-98-2	3271	Flam liquid 3	Flame	Warning	H226	P210; P233; P240; P241; P242; P243; P280; P303+P361+P353; P370+P378;	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
								P403+P235; P501	
603-177-00-8	Propylene glycol monoethyl ether, see 1-Ethoxy-2-propanol	1569-02-4							
603-129-00-6	Propylene glycol mono-tert-butyl ether, see 1-tert-Butoxy-2-propanol	57018-52-7							
603-055-00-4	Propylene oxide	75-56-9	1280	Flam liquid 1 Carcinogen 1B Mutagen 1B Skin irritant 2 Eye irritant 2A STOT single 3 (respiratory)	Flame Health haz	Danger	H224 H350 H340 H315 H319 H335	P201; P202; P210; P233; P240; P241; P242; P243; P261; P264; P271; P281; P304+P340; P312; P308+P313; P301+P330+P331; P303+P361+P353; P321; P332+P313; P362; P370+P378; P305+P351+P338; P337+P313; P403+P233; P403+P235; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-100-00-7	1,2-Propylenediamine	78-90-0	2258	Flam liquid 3 Acute tox 4 (dermal) Acute tox 4 (oral) Skin corr 1A	Corrosion Flame	Danger	H226 H312 H302 H314	P210; P233; P240; P241; P242; P243; P260; P264; P270; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P312; P322; P363; P305+P351+P338; P370+P378; P403+P235; P405; P501	
613-033-00-6	Propyleneimine, stabilized	75-55-8	1921	Flam liquid 2 Carcinogen 1B Acute tox 1 (dermal) Eye damage 1 Chron aquat 2			H225 H350 H310 H318 H411	P201; P202; P210; P233; P240; P241; P242; P243; P262; P264; P270; P271; P273; P281; P322; P361; P273; P391; P308+P313; P303+P361+P353; P310; P322; P363; P305+P351+P338; P310; P370+P378; P403+P235; P405; P501	Polymerizes explosively on exposure to acids or acid fumes.

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
006-072-00-X	Prosulfocarb (ISO common name)	52888-80-9	2771 2772 3005 3006	Acute tox 4 (oral) Skin sens 1 Acute aquatic 1 Chron aquatic 1	Environ haz Exclamation mark	Warning	H302 H317 H400 H410	P102; P261; P264; P270; P272; P273; P391; P280; P301+P312; P330; P302+P352; P333+P313; P321; P363; P501	Prosulfocarb is a thiocarbamate pesticide. For transport, different UN numbers are assigned to a pesticide depending its physical form and flammability. See annex B.2 of SANS 10228.
613-002-00-7	Pyridine	110-86-1	1282	Flam liquid 2 Acute tox 4 (inhalation) Acute tox 4 (dermal) Acute tox 4 (oral)	Flame Exclamation mark	Danger	H225 H332 H312 H302	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P304+P340; P312; P301+P310; P330; P303+P361+P353; P312; P322; P363; P370+P378; P403+P235; P501	
—	Quinoclamine	2797-51-5	3077	STOT repeat 2 Eye irritant 2A Skin sens 1 Acute aquatic 1 Chron aquatic 1	Health haz Environ haz	Warning	H373 H319 H317 H400 H410	P102; P261; P264; P270; P272; P280; P273; P391; P302+P352; P321; P363; P333+P313; P305+P351+P338; P337+P313; P501	Quinoclamine is used as a herbicide and an algicide (solid).
603-166-00-8	R-1-chloro-2,3-epoxypropane, see Epichlorohydrin	51594-55-9							
015-002-00-7	Red phosphorus, see Phosphorus, red	7723-14-0							

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
–	Refrigerant gas R 22, see Chloro-difluoromethane	75-45-6							
602-001-00-7	Refrigerant gas R14, see Chloromethane	74-87-3							
014-002-00-4	Silicon tetrachloride	10026-04-7	1818	STOT single 3 (respiratory) Skin irritant 2 Eye damage 1	Corrosion Exclamation mark	Warning	H335 H315 H318	P261; P264; P271; P280; P312; P302+P352; P332+P313; P362; P304+P340; P312; P305+P351+P338; P337+P313; P310; P403+P233; P405; P501	
011-001-00-0	Sodium	7440-23-5	1428	Water-react 1 Skin corr 1B	Flame Corrosion	Danger	H260 H314	P223; P260; P264; P280; P321; P231+P232; P335+P334; P304+P340; P311; P321; P301+P330+P331; P310; P303+P361+P353; P363; P305+P351+P338; P370+P378; P402+P404; P405; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
017-005-00-9	Sodium chlorate	7775-09-9	1495	Oxid solid 1 Acute tox 4 (oral) Chron aquatic 1	Flame over circle Environ haz	Danger	H271 H302 H410	P210; P220; P221; P264; P270; P273; P280; P283; P321; P391; P306+P360; P301+P312; P330; P371+P380+P375; P370+P373; P501	An aqueous solution of sodium chlorate is classified as an oxidizing liquid of category 2 or 3, depending on the concentration of the sodium chlorate.
613-030-00-X	Sodium dichloroisocyanurate	2893-78-9	2465	Oxid solid 2 Eye irritant 2 STOT single 3 (respiratory) Acute aquatic 1 Chron aquatic 1	Flame over circle Environ haz	Danger	H272 H319 H335 H400 H410	P102; P210; P220; P221; P261; P264; P270; P271; P280; P273; P391; P304+P340; P312; P321; P305+P351+P338; P337+P313; P370+P378; P403+P233; P405; P501	
024-004-00-7	Sodium dichromate anhydrate	10588-01-9	3084	Oxid solid 2 Carcinogen 1B Mutagen 1B Reprod 1B STOT repeat 1 Skin corr 1B Resp sens 1 Acute aquatic 1 Chron aquatic 1	Corrosion Flame over circle Health haz Environ haz	Danger	H272 H350 H340 H360 H372 H314 H334 H400 H410	P201; P202; P210; P220; P221; P260; P264; P281; P285; P273; P391; P304+P340; P310; P321; P342+P311; P301+P310+P331; P330; P303+P361+P353; P333+P313; P363; P305+P351+P338; P370+P378; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
024-004-01-4	Sodium dichromate, dihydrate	7789-12-0	3084	Oxid solid 2 Carcinogen 1B Mutagen 1B Reprod 1B STOT repeat 1 Skin corr 1B Resp sens 1 Acute aquatic 1 Chron aquatic 1	Corrosion Flame over circle Health haz Environ haz	Danger	H272 H350 H340 H360 H372 H314 H334 H400 H410	P201; P202; P210; P220; P221; P260; P264; P272; P273; P391; P281; P285; P304+P340; P310; P321; P342+P311; P301+P310+P331; P330; P370+P378; P303+P361+P353; P333+P313; P321; P363; P305+P351+P338; P405; P501	
016-028-00-1	Sodium dithionite, see Sodium hydrosulfite	7775-14-6							
603-041-00-8	Sodium ethoxide, see Sodium ethylate	141-52-6							
603-014-00-8	Sodium ethylate	141-52-6	2925	Flam solid 1 Skin corr 1B	Flame Corrosion	Danger	H228 H314	P210; P240; P241; P260; P264; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P370+P378; P405; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
001-003-00-X	Sodium hydride	7646-69-7	1427	Water-react 1	Flame	Danger	H260	P223; P231+P232; P280; P335+P334; P370+P378; P402+P404; P501	
016-028-00-1	Sodium hydrosulfite	7775-14-6	1384	Self-heating 1 Acute tox 4 (oral)	Flame Exclamation mark	Danger	H251 H302	P264; P270; P280; P301+P312; P330; P235+P410; P407; P413; P420; P501	
011-002-00-6	Sodium hydroxide solution concentration $\geq 0,5\%$ < 3 % sodium hydroxide, by mass	1310-73-2	–	Eye irritant 2A Skin irritant 2	Exclamation mark	Warning	H319 H315	P102; P264; P280; P302+P352; P332+P313; P321; P362; P305+P351+P338; P337+P313	Not hazardous for transport. Indicate the percentage of sodium hydroxide on the label.
011-002-00-6	Sodium hydroxide solution, concentration $\geq 10\%$ sodium hydroxide, by mass	1310-73-2	1824	Skin corr 1B Eye damage 1	Corrosion	Danger	H314 H318	P102; P260; P264; P280; P301+P330+P331; P304+P340; P310; P321; P303+P361+P353; P363; P305+P351+P338; P310; P405; P501	Indicate the percentage of sodium hydroxide on the label.

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
011-002-00-6	Sodium hydroxide solution, concentration $\geq 3\%$ < 10% sodium hydroxide, by mass	1310-73-2	1824	Skin corr 1C Eye damage	Corrosion	Danger	H314 H318	P102; P260; P262; P264; P280; P301+P330+P331; P304+P340; P310; P321; P303+P361+P353; P363; P305+P351+P338; P310; P405; P501	Indicate the percentage of sodium hydroxide on the label.
011-002-00-6	Sodium hydroxide, solid	1310-73-2	1823	Skin corr 1A Eye damage 1	Corrosion	Danger	H314 H318	P102; P260; P262; P264; P280; P301+P330+P331; P304+P340; P310; P321; P303+P361+P353; P262; P305+P351+P338; P230; P405; P501	
017-011-00-1	Sodium hypochlorite solution with $\geq 16\%$ available chlorine	7681-52-9	1791	Skin corr 1B Eye corr 1	Corrosion	Danger	H314 H318	P102; P260; P262; P264; P280; P301+P330+P331; P310; P304+P340; P303+P361+P353; P305+P351+P338; P405; P501	Sodium hypochlorite liberates toxic gas in contact with acids.  Indicate the percentage of available chlorine on the label.

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
017-011-00-1	Sodium hypochlorite solution with > 5 % but < 16 % available chlorine	7681-52-9	1791	Skin corr 1C Eye damage 1	Corrosion	Danger	H314 H318	P102; P260; P264; P280; P301+P330;+P331; P310; P304+P340; P310; P321; P303+P361+P353; P363; P305+P351+P338; P310; P405; P501	Sodium hypochlorite liberates toxic gas in contact with acids.  Indicate the percentage of available chlorine on the label.
017-011-00-1	Sodium hypochlorite solution with ≤ 5 % available chlorine	7681-52-9	—	Eye irritant 2A Skin irritant 2	Exclamation mark	Warning	H319 H315	P102; P264; P280; P321; P362; P302+P352; P321; P362; P332+P313; P305+P351+P338; P337+P313	Sodium hypochlorite liberates toxic gas in contact with acids. Indicate the percentage of available chlorine on the label.
603-040-00-2	Sodium methoxide, see Sodium methylate	124-41-4							
603-040-00-2	Sodium methylate	124-41-4	1431	Flam solid 1 Skin corr 1B	Flame Corrosion	Danger	H228 H314	P210; P240; P241; P260; P262; P264; P280; P304+P340; P310; P321; P370+P378 P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
007-010-00-4	Sodium nitrite	7632-00-0	1500	Oxid solid 3 Acute tox 2 (oral) Acute aquatic 1	Flamle over circle Toxic Environ haz	Danger	H272 H300 H400	P210; P220; P221; P264; P270; P273; P280; P321; P391; P301+P310; P321; P330; P370+P378; P405; P501	In contact with organic matter, sodium nitrite may ignite by friction
017-010-00-6	Sodium perchlorate	7601-89-0	1502	Oxid solid 2 Acute tox 4 (oral)	Flame over circle	Danger	H272 H302	P210; P220; P221; P264; P270; P280; P284; P301+P312; P330; P370+P378; P501	
011-003-00-1	Sodium peroxide	1313-60-6	1504	Oxid solid 1 Skin corr 1A	Flamle over circle Corrosion	Danger	H271 H314	P210; P220; P221; P260; P262; P264; P280; P283; P304+P340; P310; P321; P306+P360; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P370+P378; P371+P380+P375; P405; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
050-001-00-5	Stannic chloride pentahydrate	7646-78-8	2440	Skin corr 1C Eye damage 1 STOT single 3 (respiratory) Chron aquatic 3	Corrosion	Danger	H314 H318 H335 H412	P260; P262; P264; P271; P280; P304+P340; P310; P321; P301+P330+P331; P310; P273; P391; P303+P361+P353; P363; P305+P351+P338; P310; P273; P391; ; P403+P233; P405; P501	
050-001-00-5	Stannic chloride, anhydrous	7646-78-8	1827	Skin corr 1B Eye damage 1 STOT single 2 (inhalation) Chron aquatic 3	Corrosion Health hazard Environ haz	Danger	H314 H318 H371 H412	P260; P262; P264; P270; P280; P304+P340; P310; P321; P309+P311; P301+P330+P331; P310; P273; P391; P303+P361+P353; P363; P305+P351+P338; P310 P405; P501	
050-001-00-5	Stannic chloride, concentration $\geq 5\%$ < 10 %, by mass	7646-78-8	—	Eye irrit 2A Skin irritation 2	Exclamation mark	Warning	H319 H315	P264; P280; P302+P352; P332+P313; P362; P305+P351+P338; P337+P313	Not hazardous for transport. Indicate the percentage of stannic chloride on the label.
609-018-00-9	Styphnic acid, see 2,4,6-Trinitro-resorcinol	82-71-3							

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-026-00-0	Styrene, monomer, stabilized	100-42-5	2055	Flam liquid 3 Eye irrit 2A Skin irritant 2 STOT single 3 (respiratory) STOT repeat 1	Flame Health haz	Danger	H226 H319 H315 H335 H372	P210; P233; P240; P241; P242; P243; P261; P264; P270; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P321; P363; P305+P351+P338; P337+P313; P370+P378; P403+P233; P403+P235; P405; P501	
615-012-00-7	Sulfonyl isocyanate, see 4-Methylbenzene	4083-64-1							
016-013-00-X	Sulfur dichloride	10545-99-0	1828	Skin corr 1B STOT single 3 (respiratory) Acute aquatic 1	Corrosion Environ haz	Danger	H314 H335 H400	P260; P261; P262; P264; P271; P273; P280; P273; P391; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P305+P351+P338; P403+P233; P405; P501	



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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
016-013-00-X	Sulfur dichloride, concentration $\geq 5\%$ < 10 %, by mass	10545-99-0	3077	Skin irritant 2 STOT single 3 (respiratory) Acute aquatic 2	Exclamation mark Exclamation mark	Warning	H315 H335 H401	P261; P264; P271; P280; P373; P391; P302+P352; P321; P332+P313; P362; P304+P340; P312; P403+P233; P405; P501	Indicate the percentage of sulfur dichloride on the label.
016-012-00-4	Sulfur monochloride	10025-67-9	1828	Acute tox 3 (oral) Acute tox 4 (inhalation) Skin corr 1 Acute aquatic 1	Corrosion Toxic Environ haz	Danger	H301 H332 H314 H400	P260; P261; P262; P264; P270; P271; P280; P273; P391; P312; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P405; P501	
016-014-00-5	Sulfur tetrachloride	13451-08-6	1828	Skin corr 1B Acute aquat 1	Corrosion Environ haz	Danger	H314 H400	P260; P264; P280; P321; P363; P304+P340; P310; P321; P273; P391; P301+P330+P331; P310; P303+P361+P353; P305+P351+P338; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
016-019-00-2	Sulfuric acid, fuming	—	1831	Skin corr 1A STOT single 3 (respiratory)	Corrosion	Danger	H314 H335	P260; P261; P264; P271; P280; P304+P340; P310; P321; P301+P330+P331; P312; P303+P361+P353; P363; P305+P351+P338; P403+P233; P405; P501	Fuming sulfuric acid is a heavy fuming yellow liquid containing sulfuric acid and up to 80 % sulfur trioxide. A very dangerous fire hazard by chemical reaction with reducing agents and carbohydrates.
016-020-00-8	Sulfuric acid, with > 5 % ≤ 15 % acid, by mass	7664-93-9	—	Eye irrit 2A Skin irrit 2	Exclamation mark	Warning	H319 H315	P102; P264; P280; P302+P352; P321; P362; P332+P313; P305+P351+P338; P337+P313	Not hazardous for transport.  Indicate the percentage of sulphuric acid on the label.
016-020-00-8	Sulfuric acid, with > 51 % acid, by mass	7664-93-9	1830	Skin corr 1A	Corrosion	Danger	H314	P102; P260; P264; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P405; P501	Indicate the percentage of sulfuric acid on the label.

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
016-020-00-8	Sulfuric acid, with >15 % ≤ 51 % acid, by mass	7664-93-9	2796	Skin corr 1A	Corrosion	Danger	H314	P102; P260; P264; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P405; P501	Indicate the percentage of sulfuric acid on the label.
016-016-00-6	Sulfuryl chloride	7791-25-5	1834	Skin corr 1B STOT single 3 (respiratory)	Corrosion	Danger	H314 H335	P260; P261; P264; P271; P280; P304+P340; P312; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P403+P233; P405; P501	
613-031-00-5	Symclosene, see Trichloroisocyanuric acid	87-90-1							
617-001-00-2	TBHP, see tert-Butyl hydroperoxide	75-91-2							
028-001-00-1	Tetracarbonylnickel, see Nickel tetra-carbonyl	13463-39-3							

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
014-005-00-0	Tetraethyl silicate	78-10-4	1292	Flam liquid 3 Acute tox 4 (inhalation) Eye irritant 2A STOT single 3 (respiratory)	Flame Exclamation mark	Warning	H226 H332 H319 H335	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P303+P361+P353; P305+P351+P338; P337+P313 P370+P378; P403+P233; P403+P235; P501	
617-004-00-9	1,2,3,4-Tetrahydro-1-naphthyl hydro-peroxide Liquid Solid	771-29-9	3105 3106	Org Perox D Skin corr 1B Acute aquatic 1 Chron aquatic 1	Flame over circle Corrosion Environ haz	Danger	H242 H314 H400 H410	P210; P220; P234; P260; P264; P270; P280; P273; P391; P301+P330+P331; P304+P340; P310; P321; P303+P361+P353; P363; P305+P351+P338; P405; P410; P420; P411+P235; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
603-025-00-0	Tetrahydrofuran	109-99-9	2056	Flam liquid 2 Eye irritant 2A STOT single 3 (respiratory)	Flame Exclamation mark	Danger	H225 H319 H335	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P303+P361+P353; P305+P351+P338; P337+P313 P370+P378; P403+P233; P405; P403+P235; P501	
601-045-00-4	1,2,3,4-Tetrahydronaphthalene	119-64-2	3077	Eye irritant 2A Skin irritant 2 Chron aquatic 2	Exclamation mark Environ haz	Warning	H319 H315 H411	P210; P264; P280; P273; P391; P302+P352; P321; P332+P313; P362; P303+P351+P353; P337+P313	Not dangerous for transport.
613-087-00-0	Tetrahydrothiophene	110-01-0	2412	Flam liquid 2 Eye irritant 2A Skin irritant 2 Chron aquatic 3	Flame Exclamation mark Environ haz	Danger	H225 H319 H315 H412	P210; P233; P240; P241; P242; P243; P261; P264; P280; P303+P361+P353; P321; P322+P313; P363; P273; P391; P305+P351+P338; P337+P313; P370+P378; P403+P235; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-103-00-3	Tetramethyl ethylene diamine	110-18-9	2372	Flam liquid 2 Acute tox 4 (oral) Skin corr 1B	Flame Corrosion	Danger	H225 H302 H314	P210; P233; P240; P241; P242; P243; P260; P262; P264; P270; P280; P301+P330+P331; P303+P361+P353; P363; P304+P340; P310; P321; P305+P351+P338; P370+P378; P403+P235; P405; P501	
601-009-00-8	2,2,3,3-Tetramethylbutane (octane isomer)	594-82-1	1262	Flam liquid 2 Aspirate haz 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
612-103-00-3	N,N,N',N'-Tetramethylethylenediamine, see 1,2-Di-(methylamino)ethane	110-18-9							
015-012-00-1	Tetraphosphorus trisulfide (free from red and white phosphorus), see Phosphorus sesquisulfide	1314-85-8							

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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-017-00-6	Tetryl	479-45-8	0208	Explosive 1.1D Acute tox 3 (inhalation) Acute tox 3 (dermal) Acute tox 3 (oral)	Exploding bomb Toxic	Danger	H201 H331 H311 H301	P201; P230; P240; P250; P280; P370+P380; P372; P373; P260; P261; P264; P270; P271; P301+P310; P321; P330; P302+P352; P312; P322; P363; P304+P340; P311; P321; P401; P403+P233; P405; P501	
607-090-00-6	Thioglycolic acid	68-11-1	1940	Skin corr 1B Eye corr 1 Acute tox 2 (inhalation) Acute tox 2 (dermal) Acute tox 2 (oral)	Corrosion Toxic	Danger	H314 H318 H330 H310 H300	P260; P262; P264; P270; P271; P280; P284; P320; P304+P340; P310; P320; P301+P330+P331; P303+P361+P353; P310; P321; P363; P305+P351+P338; P310; P403+P233; P405; P501	
016-015-00-0	Thionyl chloride	7719-09-7	1836	Acute tox 4 (inhal) Acute tox 4 (oral) Skin corr 1A	Corrosion Exclamation mark	Danger	H332 H302 H314	P260; P264; P270; P271; P280; P304+P340; P312; P301+P330+P331; P303+P361+P353; P310; P321; P363; P305+P351+P338; P405; P501	
016-015-00-0	Thionyl dichloride, see Thionyl chloride	7719-09-7							

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1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
050-001-00-5	Tin (IV) chloride, see Stannic chloride	7646-78-8							
022-001-00-5	Titanium tetrachloride	7550-45-0	1838	Corrosive	Skin corr 1B	Danger	H314	P260; P264; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P405; P501	
609-008-00-4	TNT, see 2,4,6-Trinitrotoluene	118-96-7							
601-021-00-3	Toluene	108-88-3	1294	Flam liquid 2 Reprod tox 2 Aspirate haz 1 Skin irritant 2 STOT single 3 (narcotic)			H225 H361 H304 H315 H336	P201; P202; P210; P233; P240; P241; P242; P243; P261; P264; P271; P281; P304+P340; P312; P308+P313; P301+P310; P331; P303+P361+P353; P321; P363; P332+P313; P370+P378; P403+P233; P403+P235; P405; P501	



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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
615-006-00-4	Toluene diisocyanate	26471-62-5	2078	Acute tox 2 (inhalation) Eye irritant 2A Skin irritant 2 Carcinogen 2	Toxic Health haz	Danger	H330 H319 H315 H351	P201; P202; P264; P271; P272; P280; P285; P302+P352; P321; P333+P313; P363; P304+P341; P310; P320; P305+P351+P338; P337+P313; P403+P233; P405; P501	
615-012-00-7	p-Toluenesulphonyl isocyanate	4083-64-1	–	Skin irritant 2 Eye irritant 2A STOT single 3 (respiratory) Resp sens 1	Health haz Exclamation mark	Danger	H315 H319 H335 H334	P261; P271; P264; P280; P285; P302+P352; P321; P332+P313; P362; P312; P304+P341; P342+P311; P305+P351+P338; P337+P313; P403+P233; P405; P501	Not dangerous for transport.
603-056-00-X	Tolyl glycidyl ether	26447-14-3	–	Skin irritant 2 Eye irritant 2A Skin sens 1 Chron aquatic 2	Environ haz Exclamation mark	Warning	H315 H319 H317 H411	P261; P264; P272; P273; P391; P280; P302+P352; P321; P362; P333+P313; P305+P351+P338; P337+P313; P501	Not dangerous for transport.

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
005-004-01-3 (number to be confirmed)	Trialkylboranes, liquid	—	2845	Pyro liquid 1 Skin corr 1B	Flame Corrosion	Danger	H250 H314	P210; P222; P260; P264; P280; P302+P334; P304+P340; P310; P321; P301+P330+P331; P312; P303+P361+P353; P305+P351+P338; P370+P378; P405; P422; P501	
005-004-00-6	Trialkylboranes, solid	—	2846	Pyro solid 1 Skin corr 1B	Flame Corrosion	Danger	H250 H314	P210; P222; P260; P264; P280; P302+P334; P304+P340; P310; P321; P370+P378; P301+P330+P331; P312; P303+P361+P353; P363; P305+P351+P338; P405; P422; P501	
015-003-00-2	Tricalcium diphosphide, see Calcium phosphide	1305-99-3							
014-004-00-5	Trichloro(methyl) silane, see Methyl-trichlorosilane	75-79-6							
613-031-00-5	Trichloro-1,3,5-triazinetrioxon, see Trichloroisocyanuric acid, dry	87-90-1							

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
607-004-00-7	Trichloroacetic acid solution, concentration $\geq 1\%$ < 5 % acid, by mass	76-03-9	–	Eye irritant 2A Skin irritant 2	Exclamation mark	Warning	H319 H315	P264; P280; P302+P352; P321; P332+P313; P262; P305+P351+P338; P337+P313	Not dangerous for transport.
607-004-00-7	Trichloroacetic acid solution, concentration $\geq 5\%$ , by mass	76-03-9	2564	Skin corr 1C Eye corr 1	Corrosion	Danger	H314	P260; P262; P264; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P405; P501	
607-004-00-7	Trichloroacetic acid, solid	76-03-9	1839	Skin corr 1A Eye corr 1	Corrosion	Danger	H314	P260; P262; P264; P280; P304+P340; P310; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P405; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
602-027-00-9	Trichloroethylene	79-01-6	1710	Carcinogen 1B Mutagen 2 Skin irritant 2 Eye irritant 2A STOT single 3 (narcotic) Chron aquatic 3	Health haz Exclamation mark Environ haz	Danger	H350 H341 H315 H319 H336 H412	P201; P202; P261; P264; P271; P281; P273; P391; P302+P352; P321; P332+P313; P362; P304+P340; P308+P313; P305+P351+P338; P337+P313; P403+P233; P405; P501	
613-031-00-5	Trichloroisocyanuric acid, dry	87-90-1	2468	Oxid solid 2 Eye irritant 2 STOT single 3 (respiratory) Acute aquatic 1 Chron aquatic 1	Flame over circle Environ haz	Danger	H272 H319 H335 H400 H410	P102; P210; P220; P221; P261; P264; P270; P271; P280; P321; P273; P391; P304+P340; P312; P301+P330+P331; P321; P305+P351+P338; P337+P313; P371+P380+P375; P370+P378; P403+P233; P405; P501	
602-006-00-4	Trichloromethane, see Chloroform	67-66-3							

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
014-001-00-9	Trichlorosilane	10025-78-2	1295	Flam liquid 1 Pyro liquid 1 Skin corr 1A	Flame Corrosion	Danger	H224 H250 H314	P210; P222; P233; P240; P241; P242; P243; P260; P262; P264; P270; P271; P280; P302+P334; P370+P378; P304+P340; P310; P321; P301+P330+P331; P335+P334; P303+P361+P353; P363; P305+P351+P338; P403+P235; P422; P405; P501	
–	Triclopyr (ISO common name)	55335-06-3	3077	Acute tox 4 (oral) Eye irritant 2A Skin sens 1 Chron aquatic 3	Exclamation mark Environ haz	Warning	H302 H319 H317 H412	P102; P261; P264; P270; P272; P273; P280; P273; P391; P301+P312; P330; P302+P352; P333+P313; P321; P363; P305+P351+P338; P337+P313; P501	Triclopyr is a pyridinecarboxylic acid used as an herbicide (solid).
–	Triclopyr butoxyethyl ester (ISO common name)	64700-56-7	3077	Acute tox 4 Skin sens 1 Acute aquatic 1 Chron aquatic 1	Environ haz Exclamation mark	Warning	H302 H317 H400 H410	P102; P261; P264; P270; P272; P280; P273; P391; P301+P312; P330; P302+P352; P321; P333+P313; P363; P501	Triclopyr butoxyethyl ester is the ester of pyridinecarboxylic acid and is used as an herbicide (solid).

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
612-004-00-5	Triethylamine	121-44-8	1296	Flam liquid 2 Acute tox 4 (inhalation) Skin corr 1A	Flame Corrosion	Danger	H225 H332 H314	P210; P233; P240; P241; P242; P243; P260; P264; P270; P271; P280; P304+P340; P312; P321; P301+P330+P331; P303+P361+P353; P363; P305+P351+P338; P310; P370+P378; P403+P235; P405; P501	
603-176-00-2	Triethylene glycol dimethyl ether	112-49-2	—	Reprod tox 1B	Health haz	Danger	H360	P201; P202; P281; P308+P313; P405; P501	Not dangerous for transport.
602-056-00-7	Trifluorotoluene, see Benzotrifluoride	98-08-8							

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
609-053-00-X	Trihydrazine trinitromethane	—	—	Unstable expl Self-reactive A Carcinogen 1B Acute tox 3 (inhalation)	Exploding bomb Toxic Health haz	Danger	H200 H240 H350 H331	P201; P202; P281; P372; P373; P380; P210; P220; P234; P370+P378; P370+P380+P375; P261; P271; P272; P302+P352; P333+P313; P363; P321; P304+P340; P311; P321; P401; P403+P233; P403+P235; P411; P420; P501	The substance is unstable and too dangerous to be transported. Therefore, no UN number has been assigned.  Supplied with ≥ 60% phlegmatiser, the classification changes to explosive of Division 1.1.
015-005-00-3	Trimagnesium diphosphide, see Magnesium phosphide	12057-74-8							
601-025-00-5	1,3,5-Trimethyl benzene, see Mesitylene	108-67-8							
005-005-00-1	Trimethyl borate	121-43-7	2416	Flam liquid 3 Acute tox 4 (dermal)	Flame	Warning	H226 H312	P210; P233; P240; P241; P242; P243; P263; P280; P303+P361+P353; P322; P362; P370+P378; P403+P235; P501	
601-031-00-8	2,4,4-Trimethyl-1-pentene	107-39-1	2050	Flam liquid 2 Chron aquatic 2	Flame Environ haz	Danger	H225 H411	P210; P233; P240; P241; P242; P243; P280; P273; P391; P303+P361+P353; P370+P378; P403+P235; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-043-00-3	1,2,4-Trimethylbenzene	95-63-6	2325	Flam liquid 3 Skin irritant 2 Eye irritant 2A STOT single 3 (respiratory) Chron aquatic 2	Flame Exclamation mark Environ haz	Warning	H226 H332 H315 H319 H335 H411	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P273; P391; P304+P340; P312; P321; P305+P351+P338; P337+P313; P303+P361+P353; P332+P313; P370+P378; P403+P233; P501	
601-025-00-5	1,2,3-Trimethylbenzene, see Mesitylene	108-67-8							
601-008-00-2	2,2,3-Trimethylbutane (heptane isomer)	464-06-2	1206	Flam liquid 2 Aspirate haz 1 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P321; P273; P391; P301+P310; P331; P304+P340; P312; P303+P361+P353; P332+P313; P370+P378; P403+P233; P403+P235; P405; P501	



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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-009-00-8	2,2,4-Trimethylpentane (octane isomer)	540-84-1	1262	Flam liquid 2 Aspirate haz 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
601-009-00-8	2,3,4-Trimethylpentane (octane isomer)	565-75-3	1262	Flam liquid 2 Aspirate haz 1 Skin irritant 2 STOT single 3 (narcotic) Acute aquatic 1 Chron aquatic 1	Flame Health haz Environ haz	Danger	H225 H304 H315 H336 H400 H410	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P321; P303+P361+P353; P332+P313; P363; P370+P378; P273; P391; P403+P233; P403+P235; P405; P501	
609-011-00-0	2,4,6-Trinitroanisole	606-35-9	0213	Explosive 1.1D	Exploding bomb	Danger	H201	P201; P230; P240; P250; P280; P370+P380; P372; P373; P401; P501	

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
609-005-00-8	1,3,5-Trinitrobenzene, dry or wetted with less than 30 % water, by mass	99-35-4	0214	Explosive 1.1D Acute tox 3 (oral) Acute aquatic 1 Chron aquatic 1	Exploding bomb Toxic Environ haz	Danger	H201 H301 H400 H410	P201; P230; P240; P250; P280; P370+P380; P372; P373; P264; P270; P273; P391; P301+P310; P321; P330; P401; P405; P501	A powerful high explosive that has more shattering power than TNT.
609-012-00-6	2,4,6-Trinitro-m-cresol	602-99-3	0216	Explosive 1.1D Acute tox 4 (inhalation) Acute tox 4 (dermal) Acute tox 4 (oral)	Exploding bomb	Danger	H201 H332 H312 H302	P201; P230; P240; P250; P280; P370+P380; P372; P373; P261; P264; P270; P271; P304+P340; P312; P302+P352; P321; P314; P363; P301+P310; P330; P401; P501	
609-013-00-1	2,4,6-Trinitro-m-xylene	632-92-8	0475	Explosive 1.1D Acute tox 4 (inhalation) Acute tox 4 (dermal) Acute tox 4 (oral) STOT repeat 2	Exploding bomb	Danger	H201 H332 H312 H302 H373	P201; P230; P240; P250; P280; P370+P380; P372; P373; P260; P314; P261; P264; P270; P271; P304+P340; P312; P302+P352; P314; P322; P363; P301+P312; P330; P401; P501	

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
609-009-00-X	2,4,6-Trinitrophenol (picric acid), dry or wetted with < 30 % water, by mass	88-89-1	0154	Explosive 1.1D Acute tox 3 (oral) Mutagen 2	Exploding bomb Toxic Health haz	Danger	H201 H301 H341	P201; P202; P230; P240; P250; P281; P370+P380; P372; P373; P264; P270; P301+P310; P321; P330; P401; P405; P501	The substance is very unstable. It easily forms salts and many of the salts (picrates) are more sensitive than picric acid.
609-009-00-X	2,4,6-Trinitrophenol (picric acid), dry or wetted with ≥ 30 % water, by mass	88-89-1	1344	Flam solid 1 Acute tox 3 (oral) Mutagen 2	Flame Toxic Health haz	Danger	H228 H301 H341	P201; P202; P210; P240; P241; P264; P270; P281; P308+P313; P301+P310; P321; P330; P370+P378; P405; P501	The substance is very unstable. It easily forms salts and many of the salts (picrates) are more sensitive explosives than picric acid.
609-018-00-9	2,4,6-Trinitroresorcinol (styphnic acid)	82-71-3	–	Unstable expl	Exploding bomb	Danger	H200	P201; P202; P281; P372; P373; P380; P401; P501	The pure substance is an unstable explosive and too dangerous to be transported. Therefore, no UN number has been assigned.  Wetted with ≥ 20 % water, or a mixture of water and alcohol, the substance is classified as an explosive of Division 1.1.

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
609-018-00-9	2,4,6-Trinitroresorcinol (styphnic acid), dry or wetted with < 20 % water, or a mixture of water and alcohol, by mass	82-71-3	0219	Explosive 1.1D	Exploding bomb	Danger	H201	P201; P230; P240; P250; P280; P370+P380; P372; P373; P401; P501	
609-018-00-9	2,4,6-Trinitroresorcinol (styphnic acid), wetted with ≥ 30 % water or a mixture of water and alcohol, by mass	82-71-3	0394	Explosive 1.1D	Exploding bomb	Danger	H201	P201; P230; P240; P250; P280; P370+P380; P372; P373; P401; P501	
609-008-00-4	2,4,6-Trinitrotoluene (TNT)	118-96-7	0209	Explosive 1.1D Acute tox 3 (oral) STOT repeat 2 Chron aquatic 2	Exploding bomb Toxic Environ haz	Danger	H201 H301 H373 H411	P201; P230; P240; P250; P280; P370+P380; P372; P373; P260; P264; P273; P391; P320; P301+P310; P330; P321; P312; P401; P405; P501	
605-002-00-0	1,3,5-Trioxan	110-88-3	1325	Flam solid 1 Reprod tox 2 STOT single 3 (respiratory)	Flame Health haz	Danger	H228 H361 H335	P201; P202; P210; P240; P241; P261; P271; P281; P304+P340; P312; P370+P378; P308+P313; P403+P233; P405; P501	
605-002-00-0	Trioxymethylene, see 1,3,5-Trioxan	110-88-3							
015-006-00-9	Trizinc diphosphide, see Zinc phosphide	1314-84-7							

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
613-030-00-X	Troclosene potassium, see Potassium dichloroisocyanurate	2244-21-5							
613-030-00-X	Troclosene sodium, see Sodium dichloroisocyanurate	2893-78-9							
613-029-00-4	Troclosene, see Dichloroisocyanuric acid	2782-57-2							
609-053-00-X	Trydrazine-trinitromethane, with not less than 60 % phlegmatizer	—	—	Explosive 1.1 Self-react A Carcinogen 1B Acute tox 3 (inhalation) Skin sens 1	Exploding bomb Toxic Health haz	Danger	H201 H240 H350 H331 H317	P201; P230; P240; P250; P280; P370+P380; P372; P373; P202; P210; P220; P234; P281; P370+P378; P370+P380+P375; P261; P271; P272; P302+P352; P333+P313; P321; P363; P304+P340; P311; P321; P308+P313; P401; P403+P233; P403+P235; P405; P411; P420; P501	Contact the Chief Inspector of Explosives of the SA Police Service for allocation of the UN number.  A phlegmatizer renders an explosive insensitive, or less sensitive, to heat, shock, impact, percussion or friction.

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
650-002-00-6	Turpentine oil	8006-64-2	1299	Flam liquid 3 Aspirate haz 1 Eye irritant 2A Skin irritant 2 Chron aquatic 2	Flame Exclamation mark Health haz	Warning	H226 H304 H319 H315 H411	P210; P233; P240; P241; P242; P243; P261; P264; P272; P280; P273; P391; P301+P310; P331; P333+P313; P303+P361+P353; P363; P305+P351+P338; P337+P313; P370+P378; P403+P235; P405; P501	
650-002-00-6	Turpentine substitute	8006-64-2	1300	Flam liquid 3 Aspirate haz 1 Eye irritant 2A Skin irritant 2 Chron aquatic 2	Flame Health haz Exclamation mark	Warning	H226 H304 H319 H315 H411	P210; P233; P240; P241; P242; P243; P261; P264; P272; P280; P273; P391; P301+P310; P331; P333+P313; P303+P361+P353; P363; P305+P351+P338; P337+P313; P370+P378; P403+P235; P405; P501	White spirits is regarded as a turpentine substitute.

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**Annex A** (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
023-001-00-8	Vanadium pentoxide	1314-62-1	3077	STOT repeat 1 STOT single 3 (respiratory) Chron aquatic 2	Health haz Environ haz	Warning	H372 H335 H411	P260; P261; P264; P270; P271; P273; P391; P312; P304+P340; P312; P403+P233; P405; P501	
607-023-00-0	Vinyl acetate	108-05-4	1301	Flam liquid 2 Carcinogen 2 Acute tox 4 (inhalation) STOT single 3 (respiratory)	Flame Health haz	Danger	H225 H351 H332 H335	P201; P202; P210; P233; P240; P241; P242; P243; P261; P271; P281; P308+P313; P304+P340; P312; P303+P361+P353; P370+P378; P403+P233; P403+P235; P405; P501	
602-023-00-7	Vinyl chloride, stabilized	75-01-4	1086	Flam gas 1 Carcinogen 1A	Flame Health haz	Danger	H220 H350	P201; P202; P210; P281; P377; P381; P308+P313; P403; P405; P501	
603-021-00-9	Vinyl methyl ether, see Methyl vinyl ether	107-25-5							
602-025-00-8	Vinylidene chloride, see 1,1-Dichloro-ethylene	75-35-4							
607-056-00-0	Warfarin	81-81-2	3027	Acute tox 2 (oral) STOT repeat 1	Health haz Toxic	Danger	H300 H372	P102; P260; P264; P270; P301+P310; P330; P321; P405; P501	Warfarin is a coumarin anticoagulant analogue used, inter alia, as a rodenticide (crystals)

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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
015-001-00-1	White phosphorus, see Phosphorus, white	12185-10-3							
650-002-00-6	White spirits, see Turpentine substitute	8006-64-2							
601-022-00-9	m-Xylene	108-38-3	1307	Flam liquid 3 Acute tox 4 (inhalation) Skin irritant 2	Flame	Warning	H226 H332 H315	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P303+P361+P353; P321; P332+P313; P370+P378; P403+P235; P501	
601-022-00-9	o-Xylene	95-47-6	1307	Flam liquid 2 Skin irritant 2	Flame Exclamation mark	Danger	H225 H315	P210; P233; P240; P241; P242; P243; P264; P280; P303+P361+P353; P321; P363; P332+P313; P370+P378; P403+P235; P501	



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### Annex A (continued)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
601-022-00-9	p-Xylene	106-42-3	1307	Flam liquid 3 Acute tox 4 (inhalation) Acute tox 4 (dermal) Skin irritant 2	Flame Exclamation mark	Warning	H226 H332 H312 H315	P233; P240; P241; P242; P243; P261; P264; P271; P280; P304+P340; P312; P303+P361+P353; P321; P363; P332+P313; P370+P378; P403+P235; P501	
601-022-00-9	Xylene, mixture of isomers	1330-20-7	1307	Flam liquid 3 Acute tox 4 (inhalation) Acute tox 4 (dermal) Skin irritant 2	Flame Exclamation mark	Warning	H226 H332 H312 H315	P210; P233; P240; P241; P242; P243; P261; P264; P271; P280; P312; P322; P362; P363; P302+P352; P304+P340; P332+P313; P303+P361+P353; P370+P378; P403+P235; P501	An isomer mixture of xylene typically consists of 0,07 % non-aromatics, 14 % toluene, 19,27 % ethyl benzene, 7,84 % p-xylene, 56,02 % m-xylene, 7,63 % o-xylene and 0,04 % C9 and aromatics.
030-001-00-1	Zinc dust, see Zinc powder	7440-66-6							
015-006-00-9	Zinc phosphide	1314-84-7	1714	Water-react 1 Acute tox 2 (oral) Acute aquatic 1 Chron aquatic 1	Flame Toxic Environ haz	Danger	H260 H300 H400 H410	P223; P264; P270; P273; P280; P321; P391; P231+P232; P335+P334; P301+P310; P330; P321; P370+P378; P402+P404; P405; P501	

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### Annex A (concluded)

1	2	3	4	5	6	7	8	9	10
Index No.	Chemical name	CAS No.	UN No.	Hazard class	GHS pictograms on labels	Signal word	Hazard statement code(s)	Precautionary statement codes	NOTES
030-001-00-1	Zinc powder	7440-66-6	1436	Water-react 1 Pyro solid 1 Acute aquatic 1 Chron aquatic 1	Flame Environ haz	Danger	H260 H250 H401 H410	P210; P222; P273; P280; P391; P335+P334; P370+P378; P422	
040-002-00-9	Zirconium powder, dry	7440-67-7	2008	Pyro solid 1	Flame	Danger	H250	P210; P222; P280; P335+P334; P370+P378; P422	
040-002-00-9	Zirconium, dry finished sheets, strips or coiled wire	7440-67-7	2009	Flam solid 2	Flame	Warning	H228	P210; P240; P241; P280; P370+P378	

# **Annex B**

## **CHEMICALS**

### **LISTED BY CAS NUMBER**

## **SUPPLEMENT TO SANS 10234:2008**

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### Annex B

(informative)

**Table B – Chemicals listed by CAS numbers**

		CAS No.	Chemical name
CAS No.	Chemical name		
		74-86-2	Acetylene (dissolved)
		74-86-2	Acetylene, solvent free
50-00-0	Formaldehyde solution	74-86-2	Ethyne
55-63-0	Digol dinitrate	74-86-2	Acetylene
55-63-0	Glycerol trinitrate	74-87-3	Chloromethane
55-63-0	Nitroglycerine	74-87-3	Refrigerant gas R14
57-14-7	N,N-Dimethyl-hydrazine, symmetrical	74-89-5	Methylamine
57-14-7	N,N-Dimethylhydrazine, unsymmetrical	74-90-8	Hydrocyanic acid
		74-90-8	Hydrogen cyanide
60-29-7	Diethyl ether	74-93-1	Methanethiol
60-29-7	Ether	74-93-1	Methyl mercaptan
60-29-7	Ethyl ether	74-98-6	Propane
64-17-5	Ethanol	75-00-3	Chloroethane
64-17-5	Ethyl alcohol	75-00-3	Methyl chloride
64-19-7	Acetic acid	75-00-3	Chloromethane
67-56-1	Methanol	75-00-3	Refrigerant gas R14
67-63-0	Isopropanol	75-01-4	Chloroethylene
67-63-0	Isopropyl alcohol	75-01-4	Vinyl chloride
67-63-0	Propan-2-ol	75-04-7	Ethylamine
67-64-1	Acetone	75-05-8	Acetonitrile
67-64-1	Propan-2-one	75-05-8	Cyanomethane
67-64-1	Propanone	75-07-0	Acetaldehyde
67-66-3	Chloroform	75-07-0	Ethanal
67-66-3	Trichloromethane	75-08-1	Ethanethiol
68-11-1	Thioglycolic acid	75-08-1	Ethyl mercaptan
71-23-8	Propan-1-ol	75-15-0	Carbon disulphide
71-23-8	n-Propanol	75-19-4	Cyclopropane
71-36-3	Butan-1-ol	75-20-7	Calcium carbide
71-36-3	n-Butanol	75-21-8	Ethylene oxide
71-36-3	n-Butyl alcohol	75-21-8	Oxirane
71-36-3	1-Butyl alcohol	75-26-3	2-Bromopropane
71-43-2	Benzene	75-28-5	Isobutane
74-82-8	Methane, compressed	75-29-6	2-Chloropropane
74-82-8	Methane, refrigerated liquid	75-31-0	2-Aminopropane
74-84-0	Ethane	75-31-0	Isopropylamine
74-85-1	Ethylene	75-34-3	Ethylene chloride

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### B (continued)

CAS No.	Chemical name	CAS No.	Chemical name
75-35-4	1,1-Dichloroethylene	78-87-5	Propylene dichloride
75-35-4	Vinylidene chloride	78-87-5	1,2-Dichloro-propane
75-36-5	Acetyl chloride	78-88-6	2,3-Dichloropropene
75-45-6	Chlorodifluoromethane	78-88-6	2,3-Dichloropropylene
75-45-6	Refrigerant gas R 22	78-90-0	1,2-Propylenediamine
75-50-3	tri-Methylamine	78-92-2	2-Butanol
75-52-5	Nitromethane	78-93-3	Butanone
75-55-8	2-Methylaziridine	78-93-3	Ethyl methyl ketone
75-55-8	Propyleneimine, stabilized	79-01-6	Trichloroethylene
75-56-9	1,2-Epoxypropane	79-03-8	Propionyl chloride
75-56-9	Methyloxirane	79-04-9	Chloroacetyl chloride
75-56-9	Propylene oxide	79-10-7	Acrylic acid
75-65-0	tert-Butyl alcohol	79-20-9	Methyl acetate
75-65-0	2-Methylpropan-2-ol	79-21-0	Peracetic acid
75-78-5	Dimethyldichlorosilane	79-21-0	Peroxyacetic acid
75-79-6	Methyltrichlorosilane	79-22-1	Methyl chlorocarbonate
75-79-6	Trichloro(methyl)silane	79-22-1	Methyl chloroformate
75-85-4	2-Methylbutan-2-ol	79-24-3	Nitroethane
75-85-4	tert-Pentanol	79-30-1	Isobutyryl chloride
75-91-2	tert-Butyl hydro-peroxide	79-46-9	2-Nitropropane
75-91-2	TBHP	80-15-9	Cumyl hydroperoxide
76-03-9	Trichloroacetic acid	80-43-3	Bis ( $\alpha,\alpha$ -dimethylbenzyl) peroxide
77-47-4	Hexachlorocyclopentadiene	80-47-7	p-Menthyl hydroperoxide
77-58-7	Dibutylbis(lauroyloxy)stannate	80-62-6	Methyl 2-methylpropenoate
77-58-7	Dibutyltin dilaurate	80-62-6	Methyl methacrylate
77-73-6	Dicyclopentadiene	81-81-2	Warfarin
78-04-6	Dibutyltin maleate	82-71-3	Styphnic acid
78-10-4	Ethyl silicate	82-71-3	2,4,6-Trinitroresorcinol
78-11-5	Digol dinitrate	84-69-5	Diisobutyl phthalate
78-11-5	Nitroglycerine	87-90-1	Symclosene
78-11-5	Pentaerythritol tetranitrate	87-90-1	Trichloro-1,3,5-triazinetriol
78-11-5	PETN	87-90-1	Trichloroisocyanuric acid
78-67-1	2,2'-Azobis (2-methyl-2,2'-propionitrile)	88-85-7	Dinoseb
78-78-4	Isopentane	88-88-0	Picryl chloride
78-78-4	2-Methylbutane	88-89-1	Picric acid
78-79-5	Isoprene	88-89-1	2,4,6-Trinitrophenol
78-79-5	2-Methyl-1,3-butadiene	91-06-3	Picramic acid
78-83-1	Isobutanol	94-36-0	Dibenzoyl peroxide
78-83-1	Isobutyl alcohol		

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### B (continued)

CAS No.	Chemical name	CAS No.	Chemical name
95-47-6	o-Xylene	106-35-4	Butyl ethyl ketone
95-63-6	1,2,4-Trimethylbenzene	106-35-4	Dipropyl ketone
96-05-9	Allyl methacrylate	106-35-4	Heptan-3-one
96-05-9	2-Methyl-2-propenoic acid-2-propenyl ester	106-36-5	Propyl propionate
96-22-0	Diethyl ketone	106-42-3	p-Xylene
96-22-0	Pentan-3-one	106-63-8	Isobutyl acrylate
96-33-3	Methyl acrylate	106-88-7	1-Butene oxide
96-33-3	Methyl propenoate	106-88-7	1,2-Butylene oxide
96-34-4	Methyl chloroacetate	106-88-7	1,2-Epoxybutane
96-91-3	2-Amino-4,6-dinitrophenol	106-88-7	1-Butene oxide
97-63-2	Ethyl methacrylate	106-88-7	1,2-Butylene oxide
97-64-3	Ethyl lactate	106-89-8	(R)-1-Chloro-2,3-epoxypropane
97-86-9	Isobutyl methacrylate	106-89-8	1-Chloro-2,3-epoxypropane
97-88-1	n-Butyl methacrylate	106-89-8	Epichlorohydrin
98-08-8	Benzotrifluoride	106-92-3	Allyl 2,3-epoxypropyl ether
98-08-8	Trifluorotoluene	106-92-3	Allyl glycidyl ether
98-54-4	4-Butylphenol	106-92-3	Prop-2-en-1-yl 2,3-epoxypropyl ether
98-73-7	4-tert-Butylbenzoic acid	106-94-5	1-Bromopropane
98-82-8	Cumene	106-94-5	n-Propyl bromide
98-83-9	α-Methyl styrene	106-97-8	Butane
98-83-9	2-Phenylpropene	106-98-9	Butene
98-95-3	Nitrobenzene	106-98-9	Butylene
99-35-4	1,3,5-Trinitrobenzene	106-99-0	Buta-1,3-diene
100-37-8	2-Diethylaminoethanol	106-99-0	1,3-Butadiene
100-37-8	N,N-Diethylethanamine	107-01-7	Butene, mixed-1-and-2-isomers
100-39-0	Benzyl bromide	107-02-8	Acrolein
100-39-0	α-Bromotoluene	107-02-8	Acrylaldehyde
100-41-4	Ethyl benzene	107-05-1	Allyl chloride
100-42-5	Styrene, monomer	107-05-1	3-Chloropropene
100-97-0	Hexamethylenetetramine	107-06-2	1,2-Dichloroethane
100-97-0	Methenamine	107-06-2	Ethylene dichloride
103-65-1	Propylbenzene	107-11-9	Allylamine
103-83-3	Benzyl dimethylamine	107-13-1	Acrylonitrile
104-78-9	3-Aminopropyl diethylamine	107-15-3	1,2-Diaminoethane
105-37-3	Ethyl propionate	107-15-3	1,2-Ethanediamine
105-46-4	sec-Butyl acetate	107-15-3	Ethylenediamine
105-57-7	Acetal		
105-68-0	Isopentyl propionate		

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### B (continued)

CAS No.	Chemical name	CAS No.	Chemical name
107-19-7	Prop-2-yn-1-ol	108-87-2	Methylcyclohexane
107-19-7	Propargyl alcohol	108-88-3	Toluene
107-25-5	Methoxyethylene	108-89-4	4-Methyl pyridine
107-25-5	Methyl vinyl ether	108-89-4	4-Picoline
107-25-5	Vinyl methyl ether	108-90-7	Chlorobenzene
107-30-2	Chlorodimethyl ether	108-91-8	Cyclohexylamine
107-30-2	Methyl chloromethyl ether	108-94-1	Cyclohexanone
107-31-3	Methyl formate	109-06-8	2-Methyl pyridine
107-39-1	2,4,4-Trimethyl-1-pentene	109-06-8	2-Picoline
107-70-0	4-Methoxy-4-methyl-2-pentanone	109-06-8	Methyl pyridine
107-98-2	1-Methoxy-2-propanol	109-21-7	Butyl butyrate
107-98-2	Propylene glycol methyl ether	109-55-7	3-Aminopropyl dimethylamine
108-00-9	2-Aminoethyldimethyl-amine	109-55-7	N,N-Dimethyl-1,3-di-amine-propane
108-00-9	2-Dimethylaminoethyl-amine	109-60-4	n-Propyl acetate
108-01-0	2-Dimethylamino-ethanol	109-61-5	Chloroformic acid propyl ester
108-01-0	N,N-Dimethylethanolamine	109-61-5	n-Propyl chloroformate
108-03-2	1-Nitropropane	109-61-5	Propyl chloroformate
108-05-4	Vinyl acetate	109-66-0	n-Pentane
108-08-7	2,4-Dimethylpentane	109-69-3	Butyl chloride
108-10-1	Isobutyl methyl ketone	109-69-3	Chlorobutane
108-10-1	Methyl isobutyl ketone	109-73-9	n-Aminobutane
108-10-1	4-Methyl-2-pentanone	109-73-9	n-Butylamine
108-11-2	Methyl isobutyl carbinol	109-73-9	n-Butylamine
108-11-2	4-Methyl-2-pentanol	109-74-0	n-Butyronitrile
108-16-7	Dimethyl isopropanol-amine	109-86-4	Ethylene glycol mono-methyl ether
108-16-7	1-Dimethylamino-2-propanol	109-86-4	2-Methoxyethanol
108-18-9	Diisopropylamine	109-89-7	Diethylamine
108-20-3	Diisopropyl ether	109-94-4	Ethyl formate
108-21-4	Isopropyl acetate	109-95-5	Ethyl nitrite
108-24-7	Acetic anhydride	109-99-9	Tetrahydrofuran
108-38-3	m-Xylene	110-00-9	Furan
108-62-3	Metalddehyde	110-01-0	Tetrahydrothiophene
108-65-6	2-Methoxy-1-methylethyl acetate	110-05-4	Di-tert-butyl peroxide
108-67-8	1,2,3-Trimethylben-zene	110-12-3	Isoamyl methyl ketone
108-67-8	Mesitylene	110-12-3	5-Methyl-2-hexanone
108-67-8	1,3,5-Trimethylben-zene	110-12-3	5-Methylhexan-2-one
108-83-8	Diisobutyl ketone	110-18-9	1,2-Di (dimethylamino)-ethane
108-83-8	2,6-Dimethylheptan-4-one	110-18-9	Tetramethyl ethylene diamine



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### B (continued)

CAS No.	Chemical name	CAS No.	Chemical name
110-19-0	Isobutyl acetate	115-11-7	2-Methylpropene (butene isomer)
110-43-0	Dipropyl ketone	118-96-7	TNT
110-43-0	2-Heptanone	118-96-7	2,4,6-Trinitrotoluene
110-43-0	Methyl amyl ketone	119-64-2	1,2,3,4-Tetrahydronaphthalene
110-45-2	Isoamyl formate	120-12-7	Anthracene
110-45-2	Isopentyl formate	120-92-3	Cyclopentanone
110-46-3	Amyl nitrite	121-43-7	Trimethyl borate
110-54-3	Hexane, mixture of isomers	121-44-8	Triethylamine
110-54-3	n-Hexane	123-19-3	Di-n-propyl ketone
110-71-4	1,2-Dimethoxyethane	123-19-3	4-Heptanone
110-71-4	Ethylene glycol diethyl ether	123-19-3	Dipropyl ketone
110-74-7	Propyl formate	123-38-6	Propanal
110-80-5	2-Ethoxyethanol	123-38-6	Propionaldehyde
110-80-5	Ethylene glycol monoethyl ether	123-54-6	Acetylacetone
110-82-7	Cyclohexane	123-54-6	2,4-Pentanedione
110-86-1	Pyridine	123-63-7	Paraldehyde
110-88-3	1,3,5-Trioxan	123-72-8	Butyraldehyde
110-88-3	Trioxymethylene	123-86-4	n-Butyl acetate
110-89-4	Piperidine	123-91-1	1,4-Dioxane
110-91-8	Morpholine	123-92-2	Isopentyl acetate
111-43-3	Dipropyl ether	124-40-3	Methylamine
111-44-4	Bis (2-chloroethyl) ether	124-40-3	di-Methylamine
111-44-4	Dichloroethyl ether	124-41-4	Sodium methoxide
111-44-4	Dichloroethyl oxide	124-41-4	Sodium methylate
111-65-9	Octanes	126-98-7	Methacrylonitrile
111-92-2	n-Dibutylamine	126-98-7	2-Methyl-2-propene nitrile
111-96-6	Bis (2-methoxyethyl) ether	126-99-8	2-Chloro-1,3-butadiene
111-96-6	Diethylene glycol dimethyl ether	126-99-8	2-Chlorobuta-1,3-diene
112-07-2	2-Butoxyethyl acetate	126-99-8	Chloro-prene
112-49-2	1,2-Bis (2-methoxy-ethoxy)ethane	126-99-8	β-Chloroprene
112-49-2	Triethylene glycol dimethyl ether	129-73-7	Leucomalachite green
112-49-2	α, α, α-Triethylene glycol dimethyl ether	131-73-7	Bis (2,4,6-trinitro-phenyl)amine
115-07-1	Propene	131-73-7	Hexyl
115-07-1	Propylene	138-86-3	Dipentene
115-09-3	Mercury methylchloride	138-86-3	Limonene
		140-88-5	Ethyl acrylate
		141-32-2	n-Butyl acrylate
		141-52-6	Sodium ethoxide

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### B (continued)

CAS No.	Chemical name	CAS No.	Chemical name
141-75-3	Butyryl chloride	542-56-3	Isobutyl nitrite
141-78-6	Ethyl acetate	542-75-6	1,1-Dichloropropene
141-79-7	Mesityl oxide	542-83-6	Cadmium cyanide
141-79-7	MIBK	542-83-6	Cadmium dicyanide
142-82-5	Heptane	542-88-1	Bis(chloromethyl) ether
142-84-7	Di-n-propylamine	542-88-1	Dichloro dimethyl ether
142-90-5	Dodecyl methacrylate	542-88-1	Oxybis(chloromethane
142-96-1	Butyl ether	543-59-9	Amyl chloride
142-96-1	n-Dibutyl ether	543-59-9	1-Chloropentane
142-96-1	Di-n-butyl ether	543-59-9	Pentyl chloride
142-96-1	Dibutyl ether	544-16-1	n-Butyl nitrite
151-56-4	Aziridine	544-97-8	Dimethylzinc
151-56-4	Ethyleneimine	547-64-8	Methyl lactate
287-92-3	Cyclopentane	554-12-1	Methyl propionate
298-00-0	Parathion-methyl	555-31-7	Aluminium (II) isopropylate
302-01-2	Hydrazine	555-31-7	Aluminium-tri-isopropoxide
460-19-5	Cyanogen	556-56-9	Allyl iodide
460-19-5	Oxalonitrile	556-65-9	3-Iodpropene
463-04-7	Pentyl nitrite	556-67-2	Octamethylcyclotetra-siloxane
463-82-1	2,2-Dimethylpropane	557-20-0	Diethylzinc
463-82-1	Neopentane	562-49-2	3,3-Dimethylpentane
464-06-2	2,2,3-Trimethylbutane	563-16-6	3,3-Dimethylhexane
479-45-8	N-Methyl-N-2,4,6-tetra-nitroaniline	563-47-3	3-Chloro-2-methyl-propene
479-45-8	Tetryl	563-58-6	1,1-Dichloropropene
513-49-5	(S) sec-Butylamine	563-80-4	2-Acetyl propane
534-15-6	1,1-Dimethoxyethane	563-80-4	Methyl isopropyl ketone
534-15-6	Dimethyl acetal	563-80-4	3-Methyl-2-butanone
540-42-1	Iso-butyl propionate	565-59-3	2,3-Dimethylpentane
540-54-5	1-Chloropropane	565-75-3	2,3,4-Trimethylpentane
540-59-0	1,2-Dichloroethylene	565-80-0	Diisopropyl ketone
540-67-0	Ethyl methyl ether	565-80-0	2,4-Dimethylpentan-3-one
540-80-7	tert-Butyl nitrite	583-48-2	3,4-Dimethylhexane
540-84-1	Isooctane	583-60-8	2-Methylcyclohexa-none
540-84-1	2,2,4-Trimethylpentane	584-94-1	2,3-Dimethylhexane
540-88-5	tert-Butyl acetate	589-34-4	3-Methylhexane
541-41-3	Ethyl chloroformate	589-43-5	2,4-Dimethylhexane
541-85-5	Ethyl amyl ketone	589-53-7	4-Methylheptane
541-85-5	5-Methyl-3-heptanone	589-81-1	3-Methylheptane
		589-90-2	1,4-Dimethylcyclo-hexane

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### B (continued)

CAS No.	Chemical name	CAS No.	Chemical name
590-18-1	cis-2-Butene	630-08-0	Carbon monoxide
590-35-2	2,4-Dimethylpentane	632-92-8	2,4,6-Trinitro-m-xylene
590-73-8	2,2-Dimethylhexane	637-78-5	Isopropyl propionate
591-34-4	sec-Butyl propionate	637-92-3	2-Ethoxy-2-methyl-propane
591-76-4	2-Methylhexane	637-92-3	tert-Butyl ethylether
591-78-6	Butyl methyl ketone	637-92-3	Ethyl tert-butylether
591-78-6	2-Hexanone	638-49-3	n-Amyl formate
591-78-6	Methyl butyl ketone	638-49-3	Pentyl formate
592-13-2	2,5-Dimethylhexane	646-06-0	1,3-Dioxolane
592-27-8	2-Methylheptane	674-82-8	Diketene
592-34-7	Butyl chloroformate	693-21-0	Diethylene glycol dinitrate
592-84-7	n-Butyl formate	693-21-0	Digol dinitrate
593-60-2	Bromoethylene	693-21-0	Oxydiethylene dinitrate
594-82-1	2,2,3,3-Tetramethyl-butane	732-11-6	Phosmet
598-56-1	N-ethyldimethylamine	753-39-2	Dimethyltin dichloride
598-73-8	N,N-Dimethylethyl-amine	762-75-4	tert-Butyl formate
598-73-8	Ethyl-dimethylamine	771-29-9	1,2,3,4-Tetrahydro-1-naphthyl hydroperoxide
602-99-3	2,4,6-Trinitro-m-cresol	818-08-6	Dibutyltin oxide
606-35-9	2,4,6-Trinitroanisole	865-33-8	Potassium methoxide
608-93-5	Pentachlorobenzene	865-33-8	Potassium methylate
609-26-7	3-Ethyl-2-methylpentane	865-34-9	Lithium methoxide, see Lithium methylate
616-38-6	Dimethyl carbonate	865-34-9	Lithium methylate
617-78-7	3-Ethylpentane	917-58-8	Potassium ethoxide
619-99-8	3-Ethylhexane	917-58-8	Potassium ethylate
624-41-9	2-Methylbutyl acetate	924-43-6	sec-Butyl nitrite
624-54-4	Pentyl propionate	993-16-8	Methyltin trichloride
624-64-6	(E)-But-2-ene	1067-08-9	3-Ethyl-3-methyl-pentane
624-83-9	Methyl isocyanate	1067-33-0	Dibutyltin diacetate
625-29-6	2-Chloropentane	1067-33-8	Diactoxydibutyl stannate
625-55-8	Isopropyl formate	1303-00-0	Gallium arsenide
625-58-1	Ethyl nitrate	1304-29-6	Barium peroxide
626-23-3	Di-sec-butylamine	1305-99-3	Calcium phosphide
626-38-0	sec-Amyl acetate	1305-99-3	Tricalcium diphosphide
626-38-0	1-Methylbutyl acetate	1310-58-3	Potassium hydroxide
628-63-7	Pentyl acetate	1310-73-2	Sodium hydroxide
628-86-4	Mercuric fulminate	1313-60-6	Sodium peroxide
628-86-4	Mercury fulminate	1314-62-1	Vanadium pentoxide
628-96-6	Ethylene dinitrate		

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### B (continued)

CAS No.	Chemical name	CAS No.	Chemical name
1314-80-3	Phosphorus pentasulfide	2893-78-9	Sodium dichloroisocyanurate
1314-84-7	Trizinc diphosphide	2893-78-9	Troclosene sodium
1314-84-7	Zinc phosphide	3457-61-2	tert-Butyl $\alpha,\alpha$ -dimethyl-benzyl peroxide
1314-85-8	Phosphorus sesquisulfide	3459-83-4	1,3-Diethoxypropane
1314-85-8	Tetraphosphorus trisulfide	3811-04-9	Potassium chlorate
1330-20-7	Xylene	3858-78-4	Butylammonium chloride
1333-74-0	Hydrogen	4083-64-1	4-Methybenzene sulphonyl isocyanate
1333-82-0	Chromium (VI) oxide	4083-64-1	4-Methyl benzene
1335-31-5	Mercuric oxycyanide	4083-64-1	Sulfonyl isocyanate
1338-02-9	Copper naphthenate	4083-64-1	p-Toluenesulphonyl isocyanate
1420-07-1	2-tert-Butyl-4,6-dinitrophenol	4170-30-3	2-Butenal
1420-07-1	Dinoterb	4170-30-3	Crotonaldehyde
1569-02-4	1-Ethoxy-2-propanol	004254-95-2	Cycloheptatriene
1569-02-4	Ethylene glycol ethyl ether	4254-95-2	2-Methyl-2-azabicyclo-[2.2.1]-heptane
1569-02-4	Propylene glycol monoethyl ether	4262-43-5	tert-Butylarsine
1589-47-5	2-Methoxy-1-propanol	4464-23-7	Cadmium diformate
1634-04-4	tert-Butyl methyl ether	4464-23-7	Cadmium formate
634-04-4	2-Methoxy-2-methyl-propane	4464-23-7	Cadmiumformate
1663-39-4	tert-Butyl acrylate	5332-73-0	3-Methoxypropylamine
1698-60-8	Chloridazon	5470-11-1	Hydroxylamine hydrochloride
2186-24-5	p-Cresyl glycidyl ether	5470-11-1	Hydroxylammonium chloride
2186-24-5	Glycidyl p-tolyl ether	5836-29-3	Coumatetralyl
2244-21-5	Potassium dichloroisocyanurate	5989-27-5	<i>d</i> -Limonene
2244-21-5	Potassium troclosene	5989-27-5	( <i>R</i> )-p-Mentha-1,8-diene
2244-21-5	Troclosene potassium	5989-54-8	1-Limonene
2407-94-5	1,1'-Dioxybiscyclo-hexan-1-ol	5989-54-8	( <i>S</i> )-p-Mentha-1,8-diene
2407-94-5	1 Cyclohexanone per-oxide	6876-12-6	trans-1-Methyl-4-(1-methyl-vinyl) cyclohexene
2426-08-6	Butyl 2,3-epoxypropyl ether	7429-90-5	Aluminium powder, stabilized, coated
2426-08-6	Butyl glycidyl ether	7429-90-5	Aluminium powder, pyrophoric
2438-20-2	2-Methylbutyl propionate	7429-90-5	Aluminium
2556-73-2	N-Methyl- $\epsilon$ -caprolactam	7439-93-2	Lithium
2699-11-8	Cyclohexylidene hydroperoxide	7439-95-4	Magnesium, pellets, ribbons or turnings
2699-11-8	Cyclohexanone peroxide	7439-95-4	Magnesium
2782-57-2	Dichloro-1,3,5-triazinetriene	7440-09-7	Potassium
2782-57-2	Dichloroisocyanuric acid	7440-23-5	Sodium
2782-57-2	Troclosene		
2797-51-5	Quinoclamine		
2844-92-0	Dipicrylamine, ammonium salt		

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CAS No.	Chemical name	CAS No.	Chemical name
7440-66-6	Zinc powder	7778-54-3	Calcium hypochlorite
7440-67-7	Zirconium	7778-74-7	Potassium perchlorate
7440-70-2	Calcium	7778-85-0	1,2-Dimethoxypropane
7446-70-0	Aluminium chloride	7782-41-4	Fluorine
7572-29-4	Dichloroacetylene	7782-44-7	Oxygen
7585-14-0	Di-n-octylaluminium iodide	7782-50-5	Chlorine
7601-89-0	Sodium perchlorate	7784-42-1	Arsine
7601-90-3	Perchloric acid	7789-09-5	Ammonium dichromate
7632-00-0	Sodium nitrite	7789-12-0	Sodium dichromate, dihydrate
7637-07-2	Boron trifluoride	7789-29-9	Potassium hydrogen difluoride
7646-69-7	Sodium hydride	7789-60-8	Phosphorus tribromide
7646-78-8	Stannic chloride pentahydrate	7789-78-8	Calcium hydride
7646-78-8	Stannic chloride	7790-80-6	Cadmium iodide
7646-78-8	Tin (IV) chloride	7790-94-5	Chlorosulphonic acid
7664-38-2	Phosphoric acid	7790-98-9	Ammonium perchlorate
7664-41-7	Ammonia	7791-25-5	Sulfuryl chloride
7664-41-7	Ammonia, anhydrous	7803-49-8	Hydroxylamine
7664-93-9	Sulfuric acid	8006-64-2	Turpentine oil
7681-52-9	Sodium hypochlorite	8008-20-6	Paraffin, illuminating
7697-37-2	Nitric acid	8008-20-6	Kerosene
7705-14-8	(±)-1-Methyl-4-(1-methylvinyl) cyclohexene	8014-95-7	Oleum ... % SO <sub>3</sub>
7719-09-7	Thionyl chloride	8014-95-7	Sulfuric acid, fuming
7719-09-7	Thionyl dichloride	8032-32-4	Benzine
7719-12-2	Phosphorus trichloride	8032-32-4	Ligroin
7722-64-7	Potassium permanganate	9004-70-0	Cellulose nitrate
7722-84-1	Hydrogen peroxide	9004-70-0	Nitrocellulose
7723-14-0	Phosphorus, red	9005-90-7	Turpentine substitute
7723-14-0	Red phosphorus	9005-90-7	White spirits
7727-21-1	Dipotassium peroxodisulfate	10025-67-9	Sulfur monochloride
7727-21-1	Potassium persulfate	10025-78-2	Trichlorosilane
7727-54-0	Ammonium persulfate	10025-87-3	Phosphoryl trichloride
7727-54-0	Diammonium peroxodisulfate	10026-04-7	Silicon tetrachloride
7758-01-2	Potassium bromate	10026-13-8	Phosphorus penta-chloride
7758-09-0	Potassium nitrite	10039-54-0	Bis (hydroxyl-ammonium) sulfate
7775-09-9	Sodium chlorate	10039-54-0	Hydroxylamine sulfate (2:1)
7775-14-6	Sodium dithionite	10049-04-4	Chlorine dioxide
7775-14-6	Sodium hydrosulfite	10061-01-5	cis-1,3-Dichloropropene

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CAS No.	Chemical name	CAS No.	Chemical name
10294-33-4	Boron tribromide	20859-73-8	Aluminium phosphide
10294-34-5	Boron trichloride	21369-64-2	Hexyllithium
10545-99-0	Sulfur dichloride	22224-92-6	Fenamiphos
10588-01-9	Sodium dichromate anhydrate	22967-92-6	Methylmercury
12057-74-8	Magnesium phosphide	24613-89-6	Chromic chromate
12057-74-8	Trimagnesium diphosphide	24613-89-6	Chromium (III) chromate
12091-08-6	Potassium- $\mu$ -fluoro-bis(triethyl-aluminium)	24613-89-6	Dichromium tris-(chromate)
12185-10-3	Phosphorus, white	26447-14-3	Cresyl glycidyl ether
12185-10-3	White phosphorus	26447-14-3	Tolyl glycidyl ether
12262-58-7	Cyclohexanone peroxide	26471-62-5	Toluene diisocyanate
13424-46-9	Lead azide	28772-56-7	Bromadiolone
13451-08-6	Sulfur tetrachloride	30899-19-5	Pentanol
13463-39-3	Nickel tetracarbonyl	31394-54-4	Isoheptane
13463-39-3	Tetracarbonylnickel	32809-16-8	Oxydemeton-methyl
13465-95-7	Barium perchlorate	32809-16-8	Procymidone
13477-00-4	Barium chlorate	34681-10-2	Butocarboxim
13952-84-6	(R)-2-Aminobutane	35367-38-5	Diflubenzuron
13952-84-6	(R)-sec-Butylamine	50715-28-1	Cyclopentyl chloro-formate
13952-84-6	(S)-2-Aminobutane	51594-55-9	R-1-chloro-2,3-epoxypropane
13952-84-6	(S)-sec-Butylamine	51594-55-9	Epichlorohydrin
13952-84-6	2-Aminobutane	52888-80-9	Prosulfocarb
13952-84-6	sec-Butylamine	54839-24-6	2-Ethoxy-1-methylethyl acetate
14977-61-8	Chromic oxychloride	55335-06-3	Triclopyr
14977-61-8	Chromyl dichloride	55426-95-4	Diethyl(ethyl-dimethyl-silanato)-aluminium
15159-40-7	Morpholine-4-carbonyl chloride	56073-07-5	Difenacoum
15245-44-0	Lead 2,4,6-trinitro-m-phenylene dioxide	56073-10-0	Brodifacoum
15245-44-0	Lead 2,4,6-trinitro-resorcin--oxide	57018-52-7	Propylene glycol mono-tert-butyl ether
15245-44-0	Lead styphnate	57044-25-4	(R)-Epoxy-1-propanol
15825-70-4	Mannitol hexanitrate	57583-34-3	Methyltin tris(2-ethyl-hexyl-mercapto-acetate)
15825-70-4	Nitromannite	64700-56-7	Triclopyr butoxyethyl ester
16672-87-0	Ethephon	65996-93-2	Pitch, coal tar
16853-85-3	Aluminium lithium hydride	67306-00-7	Fenpropidin
16949-65-8	Magnesium hexafluorosilicate	68476-85-7	Petroleum gas
17010-21-8	Cadmium fluorosilica	69045-82-5	2-Fluoro-5-trifluoro-methyl-pyridine
17010-21-8	Cadmium hexafluoro-silicate	69094-18-4	2,2-Dibromo-2-nitroethanol
18230-61-0	Bis (1-methylethyl)-dimethoxy-silane	70657-70-4	2-Methoxypropyl acetate

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CAS No.	Chemical name	CAS No.	Chemical name
7550-45-0	Titanium tetrachloride	104653-34-1	Difethialone
79277-18-2	Methyl 3-isocyanato-sulfonyl-2-thiophene-carboxylate	111439-76-0	Isobutyl isopropyl dimethoxy-silane
83056-32-0	Methyl-2-(isocyanato-sulfonyl-methyl) benzoate	700005-34-3	1,1-Dichloroethane
92045-80-2	Petroleum gases, liquefied	900035-08-8	Flocoumafen
95465-99-9	Cadusafos		

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